



March 9, 2020

Tony Howes
Project Manager
Utah Department of Environmental Quality
Division of Environmental Response and Remediation
195 North 1950 West
P.O. Box 144840
Salt Lake City, Utah 84114-4840

**Re: Final Fourth Quarter 2019 (December 5, 2019) Sampling and Results Summary
Five Points PCE Plume Site
Davis County, Utah
Work Assignment No. 06 under Contract No. 146237**

Dear Mr. Howes:

This letter report summarizes and presents the results of the 2019 Fourth Quarter sampling conducted at the Five Points PCE Plume Site in December 2019, which constitutes the eighth quarterly sampling event to be conducted under this work assignment.

Samples were collected from 14 of the 19 site monitoring wells, as shown on Figure 1 and summarized in Table 1. MW1-2004 and MW2-2004 were not sampled because they were dry. MW-102 was not sampled due to its initial non-detect result and because MW-103 has provided bounding of the tetrachloroethene (PCE) plume in that area. MW-106S and MW-107S were not sampled also due to their initial non-detect results and because they are completed above the PCE plume.

Samples for this quarter were collected in accordance with the project Sampling and Analysis Plan using HydraSleeves, which were deployed in the wells on December 3, 2019. Water levels were recorded at each well prior to deploying the HydraSleeves (refer to Figure 1 for water table elevations and Attachment 4 for water level information over time). The HydraSleeves were set at the depths where the highest concentrations of PCE were previously detected, which for MW-103 and MW-105 is at the water table; for all other wells (except MW-101) it is the middle of the screened interval, which was set based on the highest detected PCE concentrations observed during drilling of the well. For MW-101, the highest concentration observed during drilling was at the water table, which is where the top of the 30-foot screen was set, the idea being that the long screen would allow for mining of the water table, which is what was occurring at the time. However, water levels in the vicinity of MW-101 historically increased, flooding the screen. Therefore, the HydraSleeve at MW-101 has historically been set to collect water from the top of the screened interval when the screen is flooded. During this sampling event the water table was approximately 7 feet above the top of the screened interval at MW-101, however, the sample was inadvertently collected at the water table. The associated field forms are included in Attachment 1.

The HydraSleeves were pulled and samples collected on December 5, 2019. Field water quality parameters (pH, temperature, conductivity, oxidation-reduction potential [ORP], and dissolved oxygen [DO]) were measured at each sample location using a YSI-556 multi-probe meter and recorded on the HydraSleeve Sampling form. Samples were submitted to ALS Laboratories in Salt Lake City for volatile organic compound (VOC) analysis by EPA Method SOM02.4. The associated field forms are included in Attachment 1. The analytical data package and Excel file electronic data deliverable from ALS are included in Attachment 2. The data was validated by an AECOM chemist in accordance with the Quality Assurance Project Plan (QAPP). The data was found to be useable as qualified, with the majority of the qualifications being estimated (J) or non-detect (U). Samples 5P-MW101-151 and 5P-MW101-151-Y did not meet the relative percent difference criteria of less than thirty percent. Therefore, results were qualified as estimated. Result qualifications are detailed in the data validation report (Attachment 3).

Table 1 summarizes the PCE and daughter product results for this quarter of sampling; and for comparison purposes, Table 2 summarizes the PCE concentrations at each monitoring well and sampled municipal well over time. Attachment 4 includes a summary of well information, current and historic water levels, and PCE information, as well as hydrographs depicting this data for each monitoring well. It should be noted that the decreased PCE result at MW-101 during this quarter is likely due to the fluctuation of the water table at this location and the set depth of the Hydrasleeve.

Figure 1 presents the contoured PCE plume based on the December 2019 results, as well as the footprint of the PCE plumes for the previous sampling events conducted at the site on the full set of site wells. The December 2019 groundwater elevations at each well are also shown, along with the associated groundwater contours. PCE and groundwater contours were prepared using the Surfer Version 15 Contouring Package, followed by manual interpretive editing and smoothing. The contouring package takes the point data (in this case water level elevations or PCE concentrations and piezometer locations) and interpolates them to a regular grid using the kriging interpolators available in Surfer; contours are then generated from the interpolated grid. These computer-generated contours were manually smoothed and edited to honor known data points and to reflect professional judgment in areas of sparse data. In generating the groundwater contours, where nested wells exist, the deep wells were used to produce the contours.

Figure 1 also includes the most recent PCE concentrations for municipal wells that were sampled by the respective municipality. During this quarter, WC#4 municipal well was sampled closest to the same time frame as the sampling conducted with Hydrasleeves and the following municipal wells have older PCE results; Freda Well, New Well, and 1100 North Well WC#1, WC#2, WC#3, WC#5, Honey Well, and Bountiful Well. However, it should be noted that these samples are not collected from discrete depth intervals like the Hydrasleeve samples (with the exception of the historic WC#2 sample, which was collected using a Hydrasleeve). They are collected across large screened intervals that would likely collect water from unimpacted intervals as well as impacted intervals. As such, they are not directly comparable to the Hydrasleeve samples and are, therefore, not used in the PCE contouring effort.



Pumping rates for the Weber Basin Water Conservancy District (WBWCD), City of North Salt Lake (NSL), and City of Woods Cross municipal supply wells were verified in December 2019 and are presented, along with the most recent PCE concentrations available, in Table 3. All wells are either operating within the historical ranges previously reported or are not currently in use. Because these pumping rates are consistent with or less than historical trends, the Five Points PCE plume is not expected to migrate counter to the current conceptual site model.

We appreciate the continued opportunity to provide professional services to your agency. If you have any questions regarding this deliverable, please do not hesitate to contact me at (801) 904-4073.

Sincerely,

AECOM

A handwritten signature in blue ink that reads "Tammi Messersmith".

Tammi Messersmith, PE
Project Manager

cc: Sam Garcia, EPA

Attachments:**Tables:**

Table 1 – Five Points PCE and Daughter Product Quarterly Data, December 5, 2019

Table 2 – Five Points PCE Concentrations Over Time

Table 3 – Latest Municipal Well Pumping Rates and PCE Data

Figures:

Figure 1 – Comprehensive Site Map Showing PCE Plume (December 2019)

Attachments:

Attachment 1 – Field Forms

Attachment 2 – ALS Analytical Data Package and Electronic Data Deliverable for December 5, 2019

Attachment 3 – Data Validation Report

Attachment 4 – Monitoring Well and Water Level/PCE Information and Hydrographs



Tables

Table 1
Five Points PCE and Daughter Product Quarterly Data
December 5, 2019

Sample ID	Sample Depth (ft bgs)	Analyte	Result ⁽¹⁾ ($\mu\text{g/L}$)
MW-101	151	Tetrachloroethene	12 J
		Trichloroethene	0.16 J
		cis-1,2-Dichloroethene	<0.50 U
		Vinyl chloride	<0.50 U
MW-101 ⁽²⁾	151	Tetrachloroethene	5.4 J
		Trichloroethene	<0.50 U
		cis-1,2-Dichloroethene	<0.50 U
		Vinyl chloride	<0.50 U
MW-103	108	Tetrachloroethene	0.1 J
		Trichloroethene	<0.50 U
		cis-1,2-Dichloroethene	<0.50 U
		Vinyl chloride	<0.50 U
MW-104	120	Tetrachloroethene	17
		Trichloroethene	0.12 J
		cis-1,2-Dichloroethene	<0.50 U
		Vinyl chloride	<0.50 U
MW-105	136	Tetrachloroethene	1.7
		Trichloroethene	<0.50 U
		cis-1,2-Dichloroethene	<0.50 U
		Vinyl chloride	<0.50 U
MW-106I	145	Tetrachloroethene	3.1
		Trichloroethene	0.12 J
		cis-1,2-Dichloroethene	<0.50 U
		Vinyl chloride	<0.50 U
MW-106D	195	Tetrachloroethene	0.8
		Trichloroethene	<0.50 U
		cis-1,2-Dichloroethene	<0.50 U
		Vinyl chloride	<0.50 U
MW-107I	145	Tetrachloroethene	0.45 J
		Trichloroethene	<0.50 U
		cis-1,2-Dichloroethene	<0.50 U
		Vinyl chloride	<0.50 U
MW-107D	200	Tetrachloroethene	1.4
		Trichloroethene	<0.50 U
		cis-1,2-Dichloroethene	<0.50 U
		Vinyl chloride	<0.50 U
MW-108I	149	Tetrachloroethene	0.44 J
		Trichloroethene	<0.50 U
		cis-1,2-Dichloroethene	<0.50 U
		Vinyl chloride	<0.50 U
MW-108D	214	Tetrachloroethene	2.1
		Trichloroethene	<0.50 U
		cis-1,2-Dichloroethene	<0.50 U
		Vinyl chloride	<0.50 U
MW-109I	169	Tetrachloroethene	0.35 J
		Trichloroethene	<0.50 U
		cis-1,2-Dichloroethene	<0.50 U
		Vinyl chloride	<0.50 U
MW-109D	230	Tetrachloroethene	0.14 J
		Trichloroethene	<0.50 U
		cis-1,2-Dichloroethene	<0.50 U
		Vinyl chloride	<0.50 U
MW-110I	208	Tetrachloroethene	<0.50 U
		Trichloroethene	<0.50 U
		cis-1,2-Dichloroethene	<0.50 U
		Vinyl chloride	<0.50 U
MW-110D	301	Tetrachloroethene	0.16 J
		Trichloroethene	<0.50 U
		cis-1,2-Dichloroethene	<0.50 U
		Vinyl chloride	<0.50 U
MW1-2004	Dry	Tetrachloroethene	NA
		Trichloroethene	NA
		cis-1,2-Dichloroethene	NA
		Vinyl chloride	NA
MW2-2004	Dry	Tetrachloroethene	NA
		Trichloroethene	NA
		cis-1,2-Dichloroethene	NA
		Vinyl chloride	NA
Trip Blank	NA	Tetrachloroethene	<0.50 U
		Trichloroethene	<0.50 U
		cis-1,2-Dichloroethene	<0.50 U
		Vinyl chloride	<0.50 U

Notes:

(1) - Bold values indicate PCE concentrations exceed 5 $\mu\text{g/L}$

(2) - Field duplicate collected at MW-101

$\mu\text{g/L}$ - Micrograms per liter

bgs - Below ground surface

ft - Feet

NA - Not applicable

PCE - Tetrachloroethene

D - Laboratory diluted sample

U - Below laboratory detection limit

J - Estimated value based on results of the data validation

Table 2
Five Points PCE Concentrations Over Time

Collection Date		09/20/10	01/27/11	11/16/11	11/17/11	02/02/12	04/06/12	05/15/12	08/30/12	09/05/12	11/28/12	02/26/13	01/28/14	05/14/14	08/14/14	11/13/14	02/11/15	02/16/18	05/16/18	08/29/18	11/29/18	02/27/19	05/29/19	09/05/19	12/05/19	
Location	Sample depth (ft bgs) ⁽¹⁾	PCE µg/L ⁽²⁾																								
MW-101	151 (151-160)	32	30			12		8.1	1.4		2.3	2.1	14	9.4	24 J	18	52 J	13	27	23	23	29	41 J	43	12 J	
MW-101	170	14																								
MW-101	180	7.1																								
MW-102	123	<0.5																								
MW-103	108 (108-120)	0.13	<0.5 U			0.19 U		0.19 J	0.35 J		0.15 J	<0.5	0.14 J	0.16 J	<0.5 U	0.17 J	0.17 J	0.17 J	<0.50 U	0.19 J	NS	<0.50 U	0.096 J	0.1 J		
MW-104	120 (119-120)		19			26		14	18		14	21	18	17	14	12	10	5.0	8.4	5.3	3.4	12	9.5	13	17	
MW-105	136 (135-146)		0.9			0.76		0.26 J	0.18 J		0.18 J	0.16 J	0.36 J	0.54	1.1	1.3	0.97	2.6	2.2	2.1	1.1	1.9	1.8	1.5	1.7	
MW-106S	66		<0.5			<0.5																				
MW-106I	145 (145-146)					9.6		7.8		8.4	4.6	6.7	7.3	4.9	5.2	6.1	1.8	2.0	0.9	1.8	0.45 J	3.4	<0.50 U	0.19 J	3.1	
MW-106D	195 (192-197)					1		1.2 J	2.2		2.1	2.7	2.2	2.7	2	2.2	0.64	0.38 J	1.2	2.3	1.8	1.1	0.86	0.32 J	0.8	
MW-107S	66		<0.5			<0.5																				
MW-107I	145 (145)					1.2		1	1.1		1.2	1.2	1.3	0.36 J	0.87	1.1	0.94	0.5	0.3 J	0.26	0.16 J	0.35 J	<0.50 U	0.27 J	0.45 J	
MW-107D	200 (200-203)					1.4		1.3	1.7		1.5	2.3	1.7	1.3	1.5	2	0.89	2.0	0.13 J	0.29 J	1.20	0.44 J	<0.50 U	0.3 J	1.4	
MW-108I	149 (149)									1		0.71	0.88	0.93	0.78	1.1	1.1	0.98	0.35 J	0.33 J	0.48 J	0.65	0.58	0.51	0.42 J	0.44 J
MW-108D	214 (214)									7.2 J		4.7	6.5	5.9	6.6	5.5	5.5	4.9	3.0	1.7	3.0	3.0	3.2	2.0	1.9	2.1
MW-109I	169 (167-169)									0.59		1.2	1.5	1	1.2	0.38 J	1.7	0.36 J	0.73	0.46 J	1.5	0.57	1.1	1.00	0.35 J	0.35 J
MW-109D	230 (215-230)									0.26 J		0.21 J	0.6	0.66	0.83	0.84	0.69	0.58 J	0.98	0.64	0.36 J	0.4 J	0.53	<0.50 U	0.74	0.14 J
MW-110I	208 (206-208)									0.3 J		<0.5	0.12 J	<0.5	0.12 J	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	
MW-110D	301 (298-301)									2.2		2.2	2.6	2	0.78	1.2	1.5	0.53 J	0.67	0.43 J	0.56	0.39 J	0.26 J	<0.50 U	0.91	0.16 J
MW-1-2004	108 (101-112)	9.3	3.6			39		13	46		22	21	9.5	15	Dry	Dry	4.7	3.7	1.4	Dry	Dry	Dry	Dry	Dry	Dry	
MW-2-2004	110 (104-114)	0.73	<0.5 U			0.92		1.5	1.4		1	2.2	0.25 J	0.26 J	Dry	0.34 J	0.24 J	0.19 J	0.17 J	Dry	Dry	Dry	Dry	Dry	Dry	
WC#2	110					<0.5																				
WC#2	128					<0.5																				
WC#2	148					<0.5																				
WC#2	158					<0.5																				
WC#2	180					<0.5																				
Freda Well	196							2.8	2.5	3.6		2.5	2.7													
Freda Well	221							2.6 J	5.4	3.5		2.8	5.6													
Freda Well	336							3.9	3.8	2.8		3	5.6													
Freda Well	366							1.6	2.2																	
Freda Well	421							2	2.2																	

Notes:

⁽¹⁾ - Most recent depth (historical range in parentheses)

⁽²⁾ - Bold values indicate PCE concentrations exceed 5 µg/L. Shaded cells indicate the well was not sampled on that date.

PCE - Tetrachloroethene

J - Estimated value based on results of the data validation

U - Below laboratory detection limit based on results of the data validation

ft - feet

bgs - below ground surface

NS - Not Sampled due to access issue

µg/L - micrograms per liter

Table 3
Latest Municipal Well Pumping Rates and PCE Data

Municipality	Sample ID	Pumping Rates ⁽¹⁾ (gpm)	Sample Date	Result (μ g/L)
Weber Basin Water Conservancy District	Bountiful Well	2,250	9/20/2017	ND
North Salt Lake	New Well	1,030	10/1/2019	ND
	1100 North Well	1,400	10/1/2019	ND
	Honey Well	Not in use	10/1/2019	1.6
	Freda Well	Not in use ⁽²⁾	10/1/2019	3.5
Woods Cross	WC1 ⁽³⁾	Not in use	12/19/2012	1.1
	WC2 ⁽⁴⁾	Not in use	11/16/2011	ND
	WC3 ⁽⁵⁾	Not in use	4/1/2019	ND
	WC4 ⁽⁶⁾	1,000	11/6/2019	1.4
	WC5 ⁽⁷⁾	Not in use	4/1/2019	ND

Notes:

Bold values indicate PCE concentrations collected in current quarter

⁽¹⁾ Approximate pumping rate during the current quarter of site sampling

⁽²⁾ Freda Well is pumped maximum from 10 pm to 7 am

⁽³⁾ historically pumped at approximatly 500 gpm.

⁽⁴⁾ historically pumped at approximatly 280 gpm.

⁽⁵⁾ historically pumped at approximatly 1,000 gpm

⁽⁶⁾ Capacity of 1,700 gpm

⁽⁷⁾ historically pumped at approximatly 1,000 gpm

μ g/L - micrograms per liter

gpm - gallons per minute

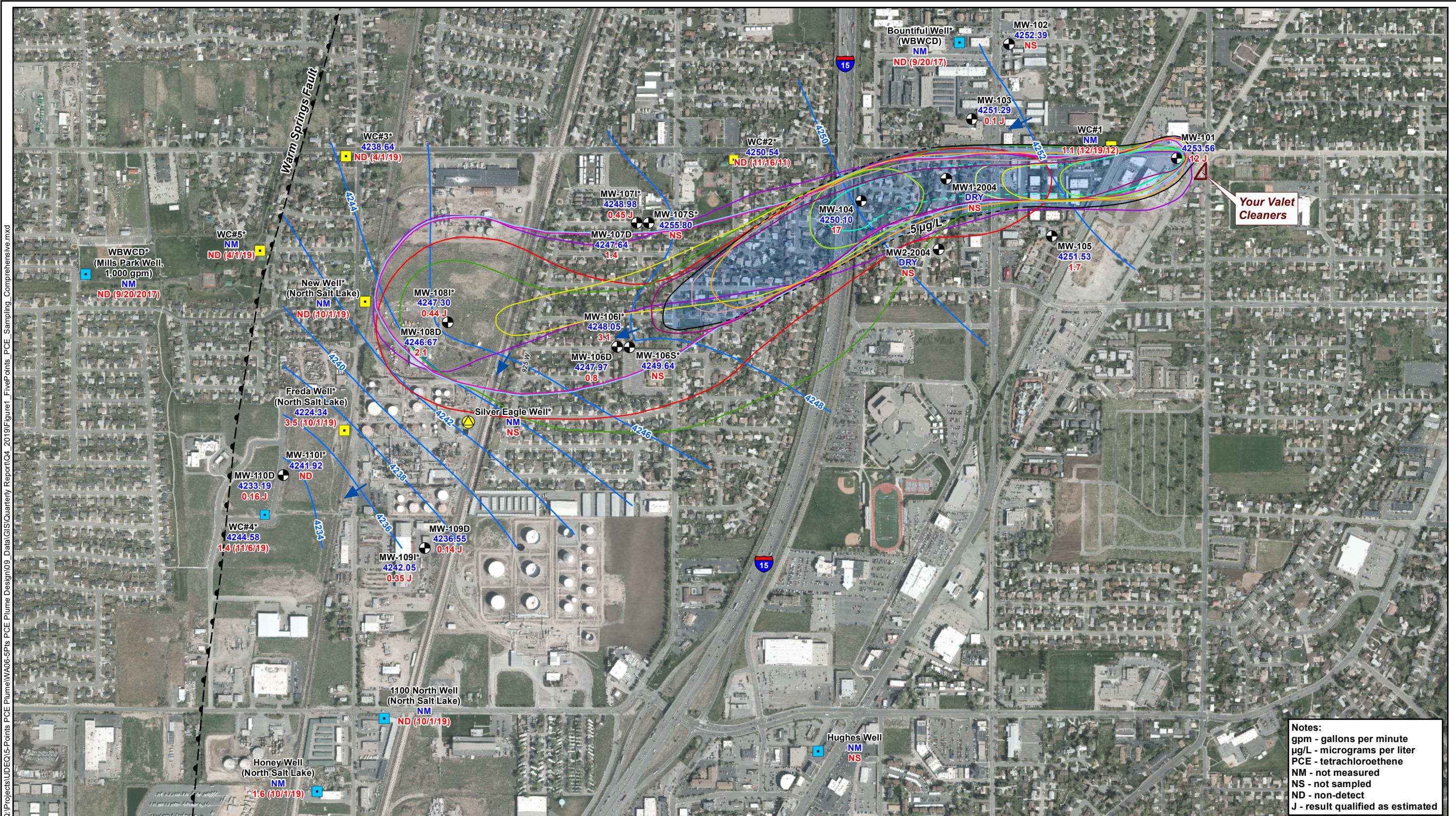
NA - not applicable

ND - below laboratory detection limit

NS - not sampled

PCE - tetrachloroethene

Figures



Source Aerial Photograph : ImageService://image.agrc.utah.gov/AerialPhotography_Color/HRO2012_Color6Inch_4Band

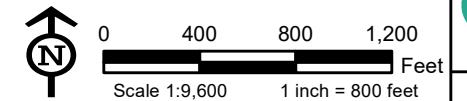
- MW-108D Monitoring Well
4238.53
2.0 Groundwater elevation (feet above mean sea level)
PCE Concentration (µg/L)
- Drinking Water Well (PCE result is most recent available)
- Drinking Water Well Not in Use (PCE result is most recent available)
- Production Well
- Groundwater Elevation Contour
(ft above mean sea level December 3, 2019)
* - not used in contouring
- ← Groundwater Flow Direction (Approximate)

PCE Concentrations (December 5, 2019)

Based on HydraSleeve Results

5 µg/L

- Approx. PCE Contour February 2018
- Approx. PCE Contour February 2015
- Approx. PCE Contour November 13, 2014
- Approx. PCE Contour August 14, 2014
- Approx. PCE Contour May 14, 2014
- Approx. PCE Contour January 2014
- Approx. PCE Contour December, 2019
Dashed where inferred
- Approx. PCE Contour September, 2019
- Approx. PCE Contour May, 2019
- Approx. PCE Contour Feb, 2019
- Approx. PCE Contour Nov, 2018
- Approx. PCE Contour Aug, 2018
- Approx. PCE Contour May, 2018



Comprehensive Site Map
Showing PCE Plume
December 2019

Five Points PCE Plume
Davis County, Utah



Figure 1



Attachment 1

Field Forms

5-POINTS GROUNDWATER ELEVATION AND HYDRASLEEVE (HS) SET FORM

Monitoring Well	Sample (Yes/No)	Screen Interval (ft BGS)	Water Level Date	Depth to Water (DTW)	Total Depth	Proposed HS Set Depth (top of HS, ft BTOS)	Actual HS Set Depth (top of HS, ft BTOS)	Hydrasleeve Set Date	Hydrasleeve Set Time	QA/QC	Comments
MW 1-2004	Yes	82-112				3' Below DTW or at 85 ft if Screen is Flooded				FD	DRY
MW 2-2004	Yes	90-116				3' Below DTW or at 93 ft if Screen is Flooded				NA	DRY
MW-101	Yes	155-185	12/3/19	167.97		3' Below DTW or at 158 ft if Screen is Flooded	151	12/3/19	1310	NA	
MW-102	No	115-135		111.51							
MW-103	Yes	105-125		108.68		3' Below DTW or at 108 ft if Screen is Flooded	108	12/3/19	1010	NA	
MW 104	Yes	115-135		89.38			120	120	12/3/19	1555	NA
MW 105	Yes	136-156		133.16		3' Below DTW or at 139 ft if Screen is Flooded	136	12/3/19	1020	MS/MSD	
MW 106s	No	60-70		55.54							
MW 106i	Yes	138-148		57.11		145	145	12/3/19	920	NA	
MW 106d	Yes	188-198		57.20		195	195	12/3/19	935	NA	
MW 107s	No	60-70		51.47							
MW 107i	Yes	138-148		57.91		145	145	12/3/19	940	NA	
MW 107d	Yes	193-203		59.31		200	200		950	NA	
MW-108i	Yes	140-150		37.16		149	149		1040	NA	
MW-108D	Yes	204-214		37.80		214	214		1050	NA	
MW-109i	Yes	160-170		42.34		169	169		1105	NA	
MW-109D	Yes	210-220		41.87		230	230		1115	NA	
MW-110i	Yes	198-208		27.54		208	208		1130	NA	
MW-110D	Yes	292-302		36.28		301	301		1145	NA	
Freda 193-196	No	Multiple									Measure distance from old measuring point
Freda 218-221	No	Multiple									
Freda 333-336	No	Multiple									
New Well	No										
WC-2	No	Multiple	12/3/19	71.8	NM						
WC-3	No	220-393		33	NM						
WC-4	No	260-380		23	NM						

Comments/Notes

TOS = Top of Screen

Update grey highlighted cells based on water level data for current round of sampling. Top of Hydrasleeve should be set at 3 feet below top of water or 3 ft below top of screen if water level indicates the screen is flooded.

LOCK #: 3210

Sampling Personnel: Lindsey Anderson Aaron Phipps

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NS = Not Sampled

NM = Not Measured

AECOM

5-POINTS GROUNDWATER SAMPLING FORM

Monitoring Well	QA/ QC	Sample Date	Sample Time	pH	Temp	Cond	ORP	DO	Comments
MW 1-2004	NS/N	12/5/19							DRY
MW 2-2004	NS/N								DRY
MW-101	FD	12/5/19	1010	7.18	10.32	1243	162.1	6.65	151 FD & 1020
MW-103	NA		1110	7.21	11.53	1.404	169.1	6.12	108
MW 104	NA		1120	7.45	10.34	0.836	173.8	5.33	120
MW 105	MS/MSD		1040	7.08	10.56	1.375	166.1	3.53	136
MW 106i	NA		950	7.13	10.27	1.261	154.2	4.59	145
MW 106d	NA		1000	7.30	11.25	0.867	147.2	4.13	195
MW 107i	NA		920	6.70	9.75	1.337	231.3	6.61	145
MW 107d	NA		930	7.00	10.31	1.155	192.2	4.90	200
MW-108i	NA		1310	7.04	5.38	0.029	50.4	2.06	149
MW-108D	NA		1330	7.07	6.92	1.119	23.8	3.45	214
MW-109i	NA		1220	7.30	11.54	0.948	0.8	2.09	169
MW-109D	NA		1240	7.45	11.97	1.047	-120	6.04	230
MW-110i	NA		1140	7.54	9.79	0.602	165.0	6.37	208
MW-110D	NA	↓	1200	7.75	9.25	0.781	166.2	4.44	301

Comments/Notes

LOCK #: 3210

Sampling Personal: Lyndsey Anderson | Aaron Phipps

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NS = Not Sampled

AECOM

Equipment Calibration Form

Project: 5-Points Groundwater Sampling

Project Number: 6005460131

Instrument: MultiMeter

Model/Serial Number: YSI 556

Weather: snowing ~30°

Calibration Personnel: Lyndsey Anderson



**Certificate of Compliance
and Calibration**

Certificate Number		11/26/2019 - 6646																																																																	
Order#	04108486	Make/Model	YSI 556																																																																
Customer#	0021330	Asset #	1115442																																																																
Customer Name	AECOM / URS I & E	Serial Number	10H101492																																																																
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Set Point																																																																			
Lot Number																																																																			
Final Span																																																																			

Notes

Location	DETROIT	Asset Released In Tolerance	<input checked="" type="checkbox"/>
Technician	M TAYLOR	All Tests Passed	<input checked="" type="checkbox"/>
Date	11/26/2019		
Time	10:29		
SOP#	472-0020		

Quality Control: **Date:**

Please Note: All tests performed with NIST Traceable Calibration Solutions at ambient room temperature, humidity, and pressure at the location listed above. Time in transit or any change in temperature, pressure, humidity, or elevation may result in changes to the calibration values listed. Performance of a bump test is recommended prior to each use; refer to owners manual for bump testing and calibration procedures. Use of this test sheet constitutes proof that the testing environment was within manufacturers' limitation and the instrument conforms to manufacturers' specification. For a copy of the calibration standard certificate of analysis or MSDS, contact us at 800-332-0435.

For lab use only



ANALYTICAL REQUEST FORM

1. REGULAR Status

RUSH Status Requested - ADDITIONAL CHARGE

RESULTS REQUIRED BY _____

DATE

CONTACT ALS SALT LAKE PRIOR TO SENDING SAMPLES

2. Date 1205119 Purchase Order No. _____

4. Quote No. 100546131.4

3. Company Name : AECOM

ALS Project Manager: T20xi

Address: 756 E Winchester St

5. Sample Collection

Suite 400 SLC UT 84107

Sampling Site S-Points PCE

Person to Contact: Jammi Messer Smith

Industrial Process: _____

Telephone (801) 904.4000

Date of Collection 1205119

Fax Telephone () _____

Time Collected _____

E-mail Address: jammi.messer.smith@Aecom.com

Date of Shipment 12/05/19

Billing Address (if different from above)

Chain of Custody No.: _____

6. How did you first learn about ALS?

7. REQUEST FOR ANALYSES

MATRIX

Client Sample Number	Matrix*	Sample/Area/Volume	ANALYSES REQUESTED - Use method number if known	Units**	Time Collected	Lab Comments
TB-120519		water	VOCs (SOM 01.2)	LATB prepared		
SP-MW1071-14S	-120519	water			920	
SP-MW107D-200	-120519				930	
SP-MW106I-14S	-120519				950	
SP-MW106D-19S	-120519				1000	
SP-MW101-151-120519					1010	
SP-MW101-151-120519-y					1020	
SP-MW105-136-120519					1040	
SP-MW103-108-120519					1110	
SP-MW104-120-120519					1120	
SP-MW110I-209-120519					1140	
SP-MW110D-301-120519					1200	
SP-MW109T-169-120519					1220	
SP-MW109D-220-120519					1240	

* Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk sample; Blood; Urine; Tissue; Soil; Water; Other

** 1. µg/sample 2. mg/m³ 3. ppm 4. % 5. µg/m³ 6. _____ (other) Please indicate one or more units in the column entitled Units**

Comments SP-MW105-136-120519 triple volume for ms/IDS

Possible Contamination and/or Chemical Hazards _____

7. Chain of Custody (Optional)

Relinquished by		Lyndsey Anderson	Date/Time <u>12/05/19 1427</u>
Received by			Date/Time <u>12/05/19 1428</u>
Relinquished by			Date/Time _____
Received by			Date/Time _____

Americas

Task Hazard Assessment

S3AM-209-FM6

Date: 12/3/19	Project Name / Location: 5-Point Plume
Permit / Job Number:	Project Number: 60546131
Description of Task: GW sampling and monitoring	

Do you have a pre-job hazard assessment (JHA) specific to this task in your hands?

- Yes – review the steps, hazards, and precautions. Attach and reference JHA in the form below. Add any additional steps, hazards, and precautions to this form otherwise unidentified on JHA.
 No – list all steps, hazards, and precautions associated with the task in the form below.

The Task Hazard Assessment is to be completed at the worksite by the individual(s) who is intended to conduct the task immediately prior to initiating the associated task. Number and attach additional pages if necessary.

Worker/Visitor acknowledgement and review of this content on back of this document. Originator to also sign Worker acknowledgement section.

Risk Matrix on Reverse

Originator	<u>Lynsey Anderson</u> Print Name
Supervisor	<u>Lynsey Anderson</u> Print Name

Highest Risk Index

11

Signature

Signatur

Task Hazard Assessment (S3AM-209-FM6)
Revision 6, June 26, 2017

PRINTED COPIES ARE UNCONTROLLED. CONTROLLED COPY IS AVAILABLE ON COMPANY INTRANET.

THIS FORM IS TO BE KEPT ON JOB SITE.

WORKER SIGN ON

NAME (Please Print)

TIME

SIGNATURE

I participated in the development and understand the content of this
Task Hazard Assessment.

Lindsey Anderson

830

Aaron Humes

830

**Task Hazard Assessment
Follow-Up/Review**

Initials/Time

Initials/Time

Initials/Time

Instructions:

Identify basic steps of the task and associated hazards. Calculate the initial risk rating. Identify control measure to eliminate or reduce the hazard's risk and calculate the residual risk rating. If the risk rating (after controls are implemented) cannot be reduced to 4 or lower, additional approvals are needed before the activity can begin.

Employees shall monitor the activities for compliance with this document. Workers should **STOP WORK** on a task if conditions change from the planned and agreed approach to the work.

This document should be updated to reflect new conditions or changes in task methods.

VISITOR SIGN ON

I have read and understand the content of this Task Hazard Assessment.

Emergency Meeting / Assembly Area

Emergency Contact #

Method of Communication

Risk Rating Matrix

Probability	Severity				
	5 - Catastrophic	4 - Critical	3 - Major	2 - Moderate	1 - Minor
5 – Frequent	25	20	15	10	5
4 – Probable	20	16	12	8	4
3 – Occasional	15	12	9	6	3
2 – Remote	10	8	6	4	2
1 – Improbable	5	4	3	2	1

Risk Rating (Probability x Severity)	Risk Acceptance Authority
1 to 4 (Low)	Risk is tolerable, manage at local level
5 to 9 (Medium)	Risk requires approval by Operations Lead/Supervisor & SH&E Manager
10 to 25 (High)	Risk requires the approval of the Operations Manager & SH&E Director

Severity – Potential Consequences				
	People	Property Damage	Environmental Impact	Public Image/Reputation
Catastrophic	Fatality, Multiple Major Incidents	>\$1M USD, Structural collapse	Offsite impact requiring remediation	Government intervention
Critical	Permanent impairment, Long term injury/illness	>\$250K to \$1M USD	Onsite impact requiring remediation	Media intervention
Major	Lost/Restricted Work	> \$10K to \$250K USD	Release at/above reportable limit	Owner intervention
Moderate	Medical Treatment	> \$1K to \$10K USD	Release below reportable limit	Community or local attention
Minor	First Aid	<=\$1K USD	Small chemical release contained onsite	Individual complaint

Probability				
Frequent	Expected to occur during task/activity	9/10		
Probable		Likely to occur during task/activity	1/10	
Occasional		May occur during the task/activity	1/100	
Remote		Unlikely to occur during task/activity	1/1,000	
Improbable		Highly unlikely to occur, but possible during task/activity	1/10,000	

Americas

Task Hazard Assessment

S3AM-209-FM6

Date: 12/15/19	Project Name / Location: 5-Point Plume	SSAM-ZUS-FM6
Permit / Job Number:	Project Number: 60546131	
Description of Task: GW sampling and monitoring		
Do you have a non-job hazard?	No	

Do you have a pre-job hazard assessment (JHA) specific to this task in your hands?

- Yes – review the steps, hazards, and precautions. Attach and reference JHA in the form below. Add any additional steps, hazards, and precautions to this form otherwise unidentified on JHA.
 No – list all steps, hazards, and precautions associated with the task in the form below.

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Worker/Visitor acknowledgement and review of this content on back of this document. Originator to also sign Worker acknowledgement section.

Risk Matrix on Reverse

Originato

Lindsay Anderson

Page 1

Supervisor

Print Name
Lyndsey Anderson
Print Name

→ Print Name

Signature

1

Signature

WORKER SIGN ON

NAME (Please Print)

TIME

SIGNATURE

I participated in the development and understand the content of this Task Hazard Assessment.

Lindsey Anderson 800 
 Aaron Rupp 800 

**Task Hazard Assessment
Follow-Up/Review**

Initials/Time

Initials/Time

Initials/Time

Instructions:

Identify basic steps of the task and associated hazards. Calculate the initial risk rating. Identify control measure to eliminate or reduce the hazard's risk and calculate the residual risk rating. If the risk rating (after controls are implemented) cannot be reduced to 4 or lower, additional approvals are needed before the activity can begin.

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VISITOR SIGN ON

I have read and understand the content of this Task Hazard Assessment.

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Emergency Contact #

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1 – Improbable	5	4	3	2	1

Risk Rating (Probability x Severity)		Risk Acceptance Authority	
1 to 4 (Low)		Risk is tolerable, manage at local level	
5 to 9 (Medium)		Risk requires approval by Operations Lead/Supervisor & SH&E Manager	
10 to 25 (High)		Risk requires the approval of the Operations Manager & SH&E Director	

Severity – Potential Consequences				
	People	Property Damage	Environmental Impact	Public Image/Reputation
Catastrophic	Fatality, Multiple Major Incidents	>\$1M USD, Structural collapse	Offsite impact requiring remediation	Government intervention
Critical	Permanent impairment, Long term injury/illness	>\$250K to \$1M USD	Onsite impact requiring remediation	Media intervention
Major	Lost/Restricted Work	> \$10K to \$250K USD	Release at/above reportable limit	Owner intervention
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Minor	First Aid	<=\$1K USD	Small chemical release contained onsite	Individual complaint

Probability		
Frequent	Expected to occur during task/activity	9/10
Probable	Likely to occur during task/activity	1/10
Occasional	May occur during the task/activity	1/100
Remote	Unlikely to occur during task/activity	1/1,000
Improbable	Highly unlikely to occur, but possible during task/activity	1/10,000



Attachment 2

**ALS Analytical Data Package and Electronic Data Deliverable
for December 5, 2019
(provided electronically on attached CD)**



Attachment 3

Data Validation Report

FIVE POINTS PCE PLUME SITE QC Sample Evaluation

Data Package Number (Work Order): TV1219 (1934066)

Sampling Event Dates: December 5, 2019

Sample-specific Parameter Review/Laboratory Performance Parameters: Yes

Full Validation (e.g. result recalculation): No

Data Reviewer: Brian Rothmeyer, AECOM Chemist

Date Completed: January 15, 2020

Peer Reviewer: Katie Abbott, AECOM Lead Verifier

The table below summarizes the data package and sample identifications discussed in this data review.

Field Identification	Sample Type	Lab Identification	Matrix	Analysis
				VOCs
TB-120519	TB	1934066001	Water	X
5P-MW1071-145-120519	SA	1934066002	Water	X
5P-MW107D-200-120519	SA	1934066003	Water	X
5P-MW106I-145-120519	SA	1934066004	Water	X
5P-MW106D-145-120519	SA	1934066005	Water	X
5P-MW101-151-120519	SA	1934066006	Water	X
5P-MW101-151-120519-Y	FD	1934066007	Water	X
5P-MW105-136-120519	SA	1934066008	Water	X ^m
5P-MW103-108-120519	SA	1934066011	Water	X
5P-MW104-120-120519	SA	1934066012	Water	X
5P-MW110I-208-120519	SA	1934066013	Water	X
5P-MW110D-301-120519	SA	1934066014	Water	X
5P-MW109I-169-120519	SA	1934066015	Water	X
5P-MW109D-230-120519	SA	1934066016	Water	X
5P-MW108I-149-120519	SA	1934066017	Water	X
5P-MW108D-214-120519	SA	1934066018	Water	X

Sample Type:

FD – Field Duplicate

SA – Sample

TB – Trip Blank

VOCs – Volatile Organic Compounds

X^m – Matrix Spike/Matrix Spike Duplicate

Note: Samples 1934066009 and 1934066010 were the matrix spike/ matrix spike duplicate (MS/MSD) performed on sample 1934066008 and were not included in the sample table above. No further action was required.

Analysis: EPA – Environmental Protection Agency
Trace VOCs (EPA SOM02.4)

The data review was conducted in accordance with the Quality Assurance Project Plan for the Remedial Design at the Five Points PCE Plume Site, Davis County, Utah (AECOM, March 2018), method requirements, and with guidance from National Functional Guidelines for Superfund Organic Methods Data Review (EPA, 2017).

General Overall Assessment:

- Data are usable without qualification.
 Data are usable with qualification (See Attachment 1: Qualified Data Sheets)
 Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any laboratory case narrative comments concerning data qualification were addressed in the table below.

Trace level detects, reported between the method detection limit (MDL) and the reporting limit (RL) have been qualified as estimated (J). The other occurrences of data qualification are covered in the following table.

Review Parameter	Criteria Met?	Comment
Chain of Custody & Sample Receipt	No	<p>With the exceptions noted below, the samples were received by ALS in Salt Lake City, Utah in good condition and were consistent with the accompanying chain of custody (COC).</p> <p>The laboratory noted that the cooler was received intact and were consistent with the accompanying COC; however, custody seals were not present on the cooler. As the samples were hand-delivered to the laboratory and custody was maintained, no further action was required and qualification was not considered necessary.</p> <p>The cooler arrived at the laboratory at a temperature of 9.0 degrees Celsius (°C). As the samples were received at the laboratory on ice the same day that the samples were collected, data qualification was not considered necessary.</p>
Holding Times	Yes	The samples were analyzed within the method required holding time.
Laboratory Blanks • Method Blank • Storage Blank	No	With the exceptions listed in Table 1, target analytes were not detected within the method blanks or storage blanks.
Matrix Quality Control • Matrix Spike/ Matrix Spike Duplicate 5P-MW105-136-120519 (SOM02.4) • Laboratory Duplicate None in this data package	Yes	<p>Matrix Spike/ Matrix Spike Duplicate (MS/MSD)</p> <p>The frequency of MS/MSDs met the Quality Assurance Project Plan (QAPP) requirement of one per twenty samples. The MS/MSD recoveries and relative percent differences (RPDs) were within laboratory acceptance limits or met the criteria listed in Table 1 of the QAPP.</p> <p>The MS/MSD spike solution used by the laboratory for volatile organic compounds (VOC) analysis contained the minimum analyte list contained in the respective method. Because a subset of target analytes for this analysis was included in the spike solution used by the laboratory, there is no direct measure of accuracy as it pertains to the samples matrix; however, an acceptable level of accuracy with respect to the analytical</p>

Review Parameter	Criteria Met?	Comment
		<p>method can be inferred from the continuing calibration verification (CCV), MS/MSD results for spiked analytes, and from the surrogate recoveries.</p> <p>Laboratory Duplicate</p> <p>A laboratory duplicate was not performed on a sample from this data package.</p>
Method Quality Control • Deuterated Surrogates	Yes	The deuterated surrogate recoveries were within the method acceptance criteria.
Field Quality Control • Trip Blank/Field Blank TB-120519 • Field Duplicate 5P-MW101-151-120519/ 5P-MW101-151-120519-Y • Equipment Blank NA	No	<p>Trip Blank (VOCs Only)</p> <p>Target analytes were not detected in the trip blank.</p> <p>Field Duplicate</p> <p>The frequency of field duplicates met the QAPP requirement of one per twenty samples.</p> <p>With the exception listed in Table 2, the comparison between results of the field duplicate pair met the criteria listed below.</p> <ul style="list-style-type: none"> • When both the sample and duplicate values are $>5x$ reporting limit (RL), acceptable sampling and analytical precision is indicated by an RPD between the results of $\leq 30\%$. • Where the result for one or both analytes of the field duplicate pair is $<5x$ RL, satisfactory precision is indicated if the absolute difference between the field duplicate results is $<2x$ RL. <p>Equipment Blank</p> <p>As dedicated equipment was used to collect these samples, an equipment blank was not submitted for this sampling event. Further action was not necessary.</p>
Reporting Limits Met?	Yes	No results were reported as non-detect at elevated RLs.
Tentatively Identified Compounds (TICs)	NA	<p>Method SOM02.4 VOCs</p> <p>A TIC search was conducted in association with the VOC analysis for the samples in this package. If the TIC library search resulted in a 85% or greater match to the reference spectrum and the TIC was reported as an identified compound, the TIC result was qualified as estimated (J ID-I). If the quality of the match was less than 85% or the analyte was reported as an “unknown”, the TIC result was qualified as tentatively identified and estimated (NJ ID-I). See Table 3 for qualification.</p>
Laboratory Performance Review		
Initial Calibration (ICAL)	Yes	<p>Method SOM02.4 VOCs</p> <p>The ICALs for target analytes and associated percent relative standard deviations (%RSD) were within the method control limits.</p>

Review Parameter	Criteria Met?	Comment
Tuning (as applicable to the method)	Yes	Method SOM02.4 VOCs A satisfactory tuning event was conducted at the beginning of every 12 hours of sample analysis. Data qualification on the basis of instrument tuning was not necessary.
Initial Calibration Verification (ICV)/Continuing Calibration Verification	Yes	Method SOM02.4 VOCs The percent difference (%D) for the target analytes in the ICV and opening and closing CCVs were within the method control limits.
Internal Standard	Yes	The recoveries for the internal standards in field samples were within the applicable acceptance limits. Therefore, data qualification based on internal standards was not necessary.
Laboratory Control Sample/Laboratory Control Sample Duplicate	NA	Per the method, a laboratory control sample is not applicable to this method.
Target Compound Identification	Yes	Method SOM02.4 VOCs The quantitation sheets and total ion chromatograms were reviewed to assure that compounds reported as identified meet the criteria contained in the method. The mass spectra were reviewed for compounds reported as identified to check that the reported mass spectral data meet the mass spectral identification criteria contained in the analytical method. No errors in compound identification were found and data qualification was not necessary.
Transcription Errors	Yes	Transcription errors were not found in this data package. Data qualification was not necessary.
Package Completeness	Yes	The results are usable as qualified for the project objective, and are 100% complete.

> – Greater Than

< – Less Than

≤ – Less Than or Equal To

°C – Degrees Celsius

% – Percent

%D – Percent Difference

%RSD – Percent Relative Standard Deviation

CCV – Continuing Calibration Verification

COC – Chain of Custody

I – Indeterminate Bias

ICAL – Initial Calibration

ICV – Initial Calibration Verification

ID – Identification

MS/MSD – Matrix Spike/ Matrix Spike Duplicate

NA – Not Applicable

NJ – Tentatively Identified

QAPP – Quality Assurance Project Plan

RL – Reporting Limit

RPDs – Relative Percent Differences

TIC – Tentatively Identified Compounds

VOCs – Volatile Organic Compounds

Table 1: Method Blank Outliers and Resultant Data Qualification

Associated Samples	Analyte	Concentration ($\mu\text{g/L}$)	Qualification
VOCs			
VBLKT1 TB-120519 5P-MW1071-145-120519 5P-MW107D-200-120519 5P-MW106I-145-120519 5P-MW106D-145-120519 5P-MW101-151-120519 5P-MW101-151-120519-Y 5P-MW105-136-120519	Acetone	1.3	The associated acetone results for samples 5P-MW106D-145-120519 and 5P-MW105-136-120519 were reported at concentrations <10x the concentration of the blank contamination and were qualified as non-detect (U MB-I) at the reported concentration for results reported at concentrations greater than the RL (5.0 $\mu\text{g/L}$) or the RL for results reported at concentrations less than the RL (5.0 $\mu\text{g/L}$).
	4-Methyl-2-Pentanone	1.1	The associated sample results were reported as non-detect and qualification was not considered necessary.
	1,2,4-Trichlorobenzene	0.11	
	1,2,3-Trichlorobenzene	0.13	
VBLKT2 5P-MW103-108-120519 5P-MW104-120-120519 5P-MW110I-208-120519 5P-MW110D-301-120519 5P-MW109I-169-120519 5P-MW109D-230-120519 5P-MW108I-149-120519 5P-MW108D-214-120519	4-Methyl-2-Pentanone	0.97	
	1,2,4-Trichlorobenzene	0.12	
	1,2,3-Trichlorobenzene	0.16	

< – Less Than

MB – Method Blank

VBLK – Volatile Method Blank

 $\mu\text{g/L}$ – Microgram per Liter

RL – Reporting Limit

VOCs – Volatile Organic Compounds

I – Indeterminate Bias

U – Non-detect

Table 2: Field Duplicate Outliers and Resultant Data Qualification

Field Sample/ Field Duplicate	Analyte	Sample Result ($\mu\text{g/L}$)	FD Result ($\mu\text{g/L}$)	Criteria not Met	Qualification
VOCs					
5P-MW101-151-120519/ 5P-MW101-151-120519-Y	Tetrachloroethene	12	5.4	RPD >30%	The associated sample results were qualified as estimated (J FD-I).

 $\mu\text{g/L}$ – Micrograms per Liter

FD – Field Duplicate

RPD – Relative Percent Difference

% – Percent

I – Indeterminate Bias

> – Greater Than

J – Estimated

Table 3: Tentatively Identified Compounds and Resultant Data Qualification

Samples	Tentatively Identified Compound	Qualitatively Identified	Qualification
VOCs			
5P-MW106I-145-120519	Unknown Isopropyl Alcohol	9%	As the qualitative values were less than 85%, the associated isopropyl alcohol results were qualified as estimated (NJ ID-I).
5P-MW109D-230-120519		39%	

% – Percent

NJ – Tentatively Identified

I – Indeterminate Bias

VOC – Volatile Organic Compounds

ID – Identification

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

TB-120519

Lab Name: ALS Environmental (SLC)
 Lab Code: ALS Case No.: 5POINTS
 Analytical Method: Trace VOA
 Matrix: WATER
 Sample wt/vol: 25.0 (g/mL) mL
 % Solids: _____
 GC Column: RTX-VMS ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated:(Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge:(Y/N) Y
 Purge Volume: 25.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L
 Contract: 97756
 MA No.: _____ SDG No.: TV1219
 Level: TRACE
 Lab Sample ID: 1934066001
 Lab File ID: MX12C001
 Date Received: 12/05/2019
 Date Extracted: _____
 Date Analyzed: 12/09/2019
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: 5.0 Dilution Factor: 1.0
 Cleanup Factor: _____

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

BR 12/31/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

TB-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066001
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX12C001
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 12/09/2019
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 5.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

BR 12/31/19

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TB-120519

Lab Name: <u>ALS Environmental (SLC)</u>	Contract: <u>97756</u>
Lab Code: <u>ALS</u>	MA No.: _____ SDG No.: <u>TV1219</u>
Analytical Method: <u>Trace VOA</u>	Level: <u>TRACE</u>
Matrix: <u>WATER</u>	Lab Sample ID: <u>1934066001</u>
Sample wt/vol: <u>25.0</u> (g/mL) <u>mL</u>	Lab File ID: <u>MX12C001</u>
% Solids: _____	Date Received: <u>12/05/2019</u>
GC Column: <u>RTX-VMS</u> ID: <u>0.25</u> (mm)	Date Extracted: _____
Extract Concentrated:(Y/N) _____	Date Analyzed: <u>12/09/2019</u>
Soil Aliquot (VOA): _____ (uL)	Extract Volume: _____ (uL)
Heated Purge:(Y/N) <u>Y</u>	Extraction Type: <u>PT</u>
Purge Volume: <u>25.0</u> (mL)	Injection Volume: _____ (uL)
Cleanup Types: _____	pH: <u>5.0</u> Dilution Factor: <u>1.0</u>
Concentration Units (ug/L, ug/kg): <u>ug/L</u>	Cleanup Factor: _____

CAS No.	ANALYTE	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
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17				
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19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

BR 12/31/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW1071-145-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066002
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX13C002
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 12/09/2019
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW1071-145-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066002
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX13C002
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 12/09/2019
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene J SQL-I	0.45	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW1071-145-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066002
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX13C002
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 Extract Concentrated:(Y/N) _____ Date Analyzed: 12/09/2019
 Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)
 Heated Purge:(Y/N) Y Extraction Type: PT
 Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)
 Cleanup Types: _____ pH: 1.0 Dilution Factor: 1.0
 Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
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11					
12					
13					
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21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes		N/A	

¹ EPA-designated Registry Number.

BR 12/31/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW107D-200-120519

Lab Name: ALS Environmental (SLC)
 Lab Code: ALS Case No.: 5POINTS
 Analytical Method: Trace VOA
 Matrix: WATER
 Sample wt/vol: 25.0 (g/mL) mL
 % Solids: _____
 GC Column: RTX-VMS ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated:(Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge:(Y/N) Y
 Purge Volume: 25.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L
 Contract: 97756
 MA No.: _____ SDG No.: TV1219
 Level: TRACE
 Lab Sample ID: 1934066003
 Lab File ID: MX14C003
 Date Received: 12/05/2019
 Date Extracted: _____
 Date Analyzed: 12/09/2019
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: 1.0 Dilution Factor: 1.0
 Cleanup Factor: _____

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW107D-200-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066003
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX14C003
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 12/09/2019
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	1.4	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

BR 12/31/19

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW107D-200-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066003
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX14C003
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 Extract Concentrated:(Y/N) _____ Date Analyzed: 12/09/2019
 Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)
 Heated Purge:(Y/N) Y Extraction Type: PT
 Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)
 Cleanup Types: _____ pH: 1.0 Dilution Factor: 1.0
 Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

CAS No.	ANALYTE	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
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10				
11				
12				
13				
14				
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16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

BR 12/31/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW106I-145-120519

Lab Name: ALS Environmental (SLC)
 Lab Code: ALS Case No.: 5POINTS
 Analytical Method: Trace VOA
 Matrix: WATER
 Sample wt/vol: 25.0 (g/mL) mL
 % Solids: _____
 GC Column: RTX-VMS ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated:(Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge:(Y/N) Y
 Purge Volume: 25.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L
 Contract: 97756
 MA No.: _____ SDG No.: TV1219
 Level: TRACE
 Lab Sample ID: 1934066004
 Lab File ID: MX15C004
 Date Received: 12/05/2019
 Date Extracted: _____
 Date Analyzed: 12/09/2019
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: 1.0 Dilution Factor: 1.0
 Cleanup Factor: _____

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform J SQL-I	0.21	J
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene J SQL-I	0.12	J
108-87-2	Methylcyclohexane	0.50	U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW106I-145-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TY1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066004
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX15C004
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 12/09/2019
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	3.1	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW106I-145-120519

Lab Name:	ALS Environmental (SLC)	Contract:	97756
Lab Code:	ALS	MA No.:	SDG No.:
Case No.:	5POINTS		TV1219
Analytical Method:	Trace VOA	Level:	TRACE
Matrix:	WATER	Lab Sample ID:	1934066004
Sample wt/vol:	25.0 (g/mL) mL	Lab File ID:	MX15C004
% Solids:		Date Received:	12/05/2019
GC Column:	RTX-VMS ID: 0.25 (mm)	Date Extracted:	
Extract Concentrated:(Y/N)		Date Analyzed:	12/09/2019
Soil Aliquot (VOA):	(uL)	Extract Volume:	(uL)
Heated Purge:(Y/N)	Y	Extraction Type:	PT
Purge Volume:	25.0 (mL)	Injection Volume:	(uL)
Cleanup Types:		pH:	1.0 Dilution Factor:
Concentration Units (ug/L, ug/kg):	ug/L	Cleanup Factor:	

CAS No.	ANALYTE	RT	EST. CONC.	Q
01	Unknown Isopropyl Alcohol NJ ID-I	3.48	0.56	J
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
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16				
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18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW106D-145-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066005
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX16C005
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 12/09/2019
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone UMB-I	5.0 1.8	JB
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW106D-145-120519

Lab Name: ALS Environmental (SLC)
 Lab Code: ALS Case No.: 5POINTS
 Analytical Method: Trace VOA
 Matrix: WATER
 Sample wt/vol: 25.0 (g/mL) mL
 % Solids: _____
 GC Column: RTX-VMS ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated:(Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge:(Y/N) Y
 Purge Volume: 25.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L
 Contract: 97756
 MA No.: _____ SDG No.: TV1219
 Level: TRACE
 Lab Sample ID: 1934066005
 Lab File ID: MX16C005
 Date Received: 12/05/2019
 Date Extracted: _____
 Date Analyzed: 12/09/2019
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: 1.0 Dilution Factor: 1.0
 Cleanup Factor: _____

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.80	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW106D-145-120519

Lab Name:	ALS Environmental (SLC)	Contract:	97756
Lab Code:	ALS	MA No.:	SDG No.:
Case No.:	5POINTS		TV1219
Analytical Method:	Trace VOA	Level:	TRACE
Matrix:	WATER	Lab Sample ID:	1934066005
Sample wt/vol:	25.0 (g/mL) mL	Lab File ID:	MX16C005
% Solids:		Date Received:	12/05/2019
GC Column:	RTX-VMS ID: 0.25 (mm)	Date Extracted:	
Extract Concentrated:(Y/N)		Date Analyzed:	12/09/2019
Soil Aliquot (VOA):	(uL)	Extract Volume:	(uL)
Heated Purge:(Y/N)	Y	Extraction Type:	PT
Purge Volume:	25.0 (mL)	Injection Volume:	(uL)
Cleanup Types:		pH:	1.0 Dilution Factor:
Concentration Units (ug/L, ug/kg):	ug/L	Cleanup Factor:	

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01					
02					
03					
04					
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24					
25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes		N/A	

¹ EPA-designated Registry Number.

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW101-151-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066006
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX21C006
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 12/09/2019
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromoform	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene J SQL-I	0.16	J
108-87-2	Methylcyclohexane	0.50	U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW101-151-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066006
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX21C006
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 12/09/2019
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene J FD-I	12.	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW101-151-120519

Lab Name: ALS Environmental (SLC)
 Lab Code: ALS Case No.: 5POINTS
 Analytical Method: Trace VOA
 Matrix: WATER
 Sample wt/vol: 25.0 (g/mL) mL
 % Solids: _____
 GC Column: RTX-VMS ID: 0.25 (mm)
 Extract Concentrated:(Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge:(Y/N) Y
 Purge Volume: 25.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, ug/kg): ug/L
 Contract: 97756
 MA No.: _____ SDG No.: TV1219
 Level: TRACE
 Lab Sample ID: 1934066006
 Lab File ID: MX21C006
 Date Received: 12/05/2019
 Date Extracted: _____
 Date Analyzed: 12/09/2019
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: 1.0 Dilution Factor: 1.0
 Cleanup Factor: _____

CAS No.	ANALYTE	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes		N/A	

¹ EPA-designated Registry Number.

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

SP-MW101-151-120519-Y

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066007
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX17C007
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 12/09/2019
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW101-151-120519-Y

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066007
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX17C007
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 12/09/2019
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene J FD-I	5.4	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW101-151-120519-Y

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066007
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX17C007
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 Extract Concentrated:(Y/N) _____ Date Analyzed: 12/09/2019
 Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)
 Heated Purge:(Y/N) Y Extraction Type: PT
 Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)
 Cleanup Types: _____ pH: 1.0 Dilution Factor: 1.0
 Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

CAS No.	ANALYTE	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
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23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes		N/A	

¹ EPA-designated Registry Number.

BR 12/31/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

SP-MW105-136-120519

Lab Name: <u>ALS Environmental (SLC)</u>	Contract: <u>97756</u>
Lab Code: <u>ALS</u>	MA No.: _____ SDG No.: <u>TV1219</u>
Analytical Method: <u>Trace VOA</u>	Level: <u>TRACE</u>
Matrix: <u>WATER</u>	Lab Sample ID: <u>1934066008</u>
Sample wt/vol: <u>25.0</u> (g/mL) <u>mL</u>	Lab File ID: <u>MX18C008</u>
% Solids: _____	Date Received: <u>12/05/2019</u>
GC Column: <u>RTX-VMS</u> ID: <u>0.25</u> (mm)	Date Extracted: _____
GC Column: _____ ID: _____ (mm)	Date Analyzed: <u>12/09/2019</u>
Extract Concentrated:(Y/N) _____	Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL)	Extraction Type: <u>PT</u>
Heated Purge:(Y/N) <u>Y</u>	Injection Volume: _____ (uL)
Purge Volume: <u>25.0</u> (mL)	pH: <u>1.0</u> Dilution Factor: <u>1.0</u>
Cleanup Types: _____	Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): <u>ug/L</u>	

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone U MB-I	5.5	B
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform J SQL-I	0.18	J
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

BR 12/31/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW105-136-120519

Lab Name: ALS Environmental (SLC)
 Lab Code: ALS Case No.: 5POINTS
 Analytical Method: Trace VOA
 Matrix: WATER
 Sample wt/vol: 25.0 (g/mL) mL
 % Solids: _____
 GC Column: RTX-VMS ID: 0.25 (mm)
 GC Column: _____ ID: _____ (mm)
 Extract Concentrated:(Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge:(Y/N) Y
 Purge Volume: 25.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L
 Contract: 97756
 MA No.: _____ SDG No.: TV1219
 Level: TRACE
 Lab Sample ID: 1934066008
 Lab File ID: MX18C008
 Date Received: 12/05/2019
 Date Extracted: _____
 Date Analyzed: 12/09/2019
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: 1.0 Dilution Factor: 1.0
 Cleanup Factor: _____

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	1.7	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW105-136-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066008
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX18C008
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 Extract Concentrated:(Y/N) _____ Date Analyzed: 12/09/2019
 Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)
 Heated Purge:(Y/N) Y Extraction Type: PT
 Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)
 Cleanup Types: _____ pH: 1.0 Dilution Factor: 1.0
 Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

CAS No.	ANALYTE	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
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09				
10				
11				
12				
13				
14				
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16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

BR 12/31/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

SP-MW103-108-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066011
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX28C011
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 12/10/2019
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW103-108-120519

Lab Name: <u>ALS Environmental (SLC)</u>	Contract: <u>97756</u>
Lab Code: <u>ALS</u>	MA No.: _____ SDG No.: <u>TV1219</u>
Analytical Method: <u>Trace VOA</u>	Level: <u>TRACE</u>
Matrix: <u>WATER</u>	Lab Sample ID: <u>1934066011</u>
Sample wt/vol: <u>25.0</u> (g/mL) <u>mL</u>	Lab File ID: <u>MX28C011</u>
% Solids: _____	Date Received: <u>12/05/2019</u>
GC Column: <u>RTX-VMS</u> ID: <u>0.25</u> (mm)	Date Extracted: _____
GC Column: _____ ID: _____ (mm)	Date Analyzed: <u>12/10/2019</u>
Extract Concentrated:(Y/N) _____	Extract Volume: _____ (uL)
Soil Aliquot (VOA): _____ (uL)	Extraction Type: <u>PT</u>
Heated Purge:(Y/N) <u>Y</u>	Injection Volume: _____ (uL)
Purge Volume: <u>25.0</u> (mL)	pH: <u>1.0</u> Dilution Factor: <u>1.0</u>
Cleanup Types: _____	Cleanup Factor: _____
Concentration Units (ug/L, mg/L, ug/kg): <u>ug/L</u>	

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene J SQL-I	0.10	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW103-108-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066011
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX28C011
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 Extract Concentrated:(Y/N) _____ Date Analyzed: 12/10/2019
 Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)
 Heated Purge:(Y/N) Y Extraction Type: PT
 Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)
 Cleanup Types: _____ pH: 1.0 Dilution Factor: 1.0
 Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

CAS No.	ANALYTE	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
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21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes		N/A	

¹ EPA-designated Registry Number.

BR 12/31/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW104-120-120519

Lab Name:	ALS Environmental (SLC)	Contract:	97756
Lab Code:	ALS	MA No.:	SDG No.:
Case No.:	5POINTS		TV1219
Analytical Method:	Trace VOA	Level:	TRACE
Matrix:	WATER	Lab Sample ID:	1934066012
Sample wt/vol:	25.0 (g/mL) mL	Lab File ID:	MX35C012
% Solids:		Date Received:	12/05/2019
GC Column:	RTX-VMS ID: 0.25 (mm)	Date Extracted:	
GC Column:	ID: (mm)	Date Analyzed:	12/10/2019
Extract Concentrated:(Y/N)		Extract Volume:	(uL)
Soil Aliquot (VOA):	(uL)	Extraction Type:	PT
Heated Purge:(Y/N)	Y	Injection Volume:	(uL)
Purge Volume:	25.0 (mL)	pH:	1.0 Dilution Factor:
Cleanup Types:		Cleanup Factor:	
Concentration Units (ug/L, mg/L, ug/kg):	ug/L		

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform J SQL-I	0.43	J
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride J SQL-I	0.14	J
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene J SQL-I	0.12	J
108-87-2	Methylcyclohexane	0.50	U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

SP-MW104-120-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066012
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX35C012
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 12/10/2019
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	17.	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW104-120-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066012
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX35C012
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 Extract Concentrated:(Y/N) _____ Date Analyzed: 12/10/2019
 Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)
 Heated Purge:(Y/N) Y Extraction Type: PT
 Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)
 Cleanup Types: _____ pH: 1.0 Dilution Factor: 1.0
 Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

BR 12/31/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW110I-208-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066013
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX29C013
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 12/10/2019
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

SP-MW110I-208-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066013
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX29C013
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 12/10/2019
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW1101-208-120519

Lab Name: ALS Environmental (SLC)
 Lab Code: ALS Case No.: 5POINTS
 Analytical Method: Trace VOA
 Matrix: WATER
 Sample wt/vol: 25.0 (g/mL) mL
 % Solids: _____
 GC Column: RTX-VMS ID: 0.25 (mm)
 Extract Concentrated:(Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge:(Y/N) Y
 Purge Volume: 25.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, ug/kg): ug/L
 Contract: 97756
 MA No.: _____ SDG No.: TV1219
 Level: TRACE
 Lab Sample ID: 1934066013
 Lab File ID: MX29C013
 Date Received: 12/05/2019
 Date Extracted: _____
 Date Analyzed: 12/10/2019
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: 1.0 Dilution Factor: 1.0
 Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes		N/A	

¹ EPA-designated Registry Number.

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW110D-301-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066014
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX30C014
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 12/10/2019
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone J SQL-I	2.0	J
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW110D-301-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066014
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX30C014
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 12/10/2019
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene J SQL-I	0.16	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW110D-301-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066014
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX30C014
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 Extract Concentrated:(Y/N) _____ Date Analyzed: 12/10/2019
 Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)
 Heated Purge:(Y/N) Y Extraction Type: PT
 Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)
 Cleanup Types: _____ pH: 1.0 Dilution Factor: 1.0
 Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
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11					
12					
13					
14					
15					
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18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 ¹	Total Alkanes		N/A	

¹ EPA-designated Registry Number.

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW109I-169-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066015
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX31C015
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 12/10/2019
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

SP-MW109I-169-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066015
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX31C015
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 12/10/2019
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene J SQL-I	0.35	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SP-MW109I-169-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066015
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX31C015
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 Extract Concentrated:(Y/N) _____ Date Analyzed: 12/10/2019
 Soil Aliquot (VOA): _____ (uL) Extract Volume: _____ (uL)
 Heated Purge:(Y/N) Y Extraction Type: PT
 Purge Volume: 25.0 (mL) Injection Volume: _____ (uL)
 Cleanup Types: _____ pH: 1.0 Dilution Factor: 1.0
 Concentration Units (ug/L, ug/kg): ug/L Cleanup Factor: _____

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	<u>E966796¹</u>	Total Alkanes		N/A	

¹ EPA-designated Registry Number.

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW109D-230-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066016
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX32C016
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 12/10/2019
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW109D-230-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066016
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX32C016
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 12/10/2019
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene J SQL-I	0.14	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW109D-230-120519

Lab Name: ALS Environmental (SLC)
 Lab Code: ALS Case No.: 5POINTS
 Analytical Method: Trace VOA
 Matrix: WATER
 Sample wt/vol: 25.0 (g/mL) mL
 % Solids: _____
 GC Column: RTX-VMS ID: 0.25 (mm)
 Extract Concentrated:(Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge:(Y/N) Y
 Purge Volume: 25.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, ug/kg): ug/L
 Contract: 97756
 MA No.: _____ SDG No.: TV1219
 Level: TRACE
 Lab Sample ID: 1934066016
 Lab File ID: MX32C016
 Date Received: 12/05/2019
 Date Extracted: _____
 Date Analyzed: 12/10/2019
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: 1.0 Dilution Factor: 1.0
 Cleanup Factor: _____

CAS No.	ANALYTE	RT	EST. CONC.	Q
01	Unknown Isopropyl Alcohol NJ ID-I	3.49	0.50	J
02				
03				
04				
05				
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08				
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20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW108I-149-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066017
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX33C017
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 12/10/2019
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone J SQL-I	2.6	J
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW108I-149-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066017
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX33C017
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 12/10/2019
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene J SQL-I	0.44	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

BR 12/31/19

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW108I-149-120519

Lab Name: ALS Environmental (SLC)
 Lab Code: ALS Case No.: 5POINTS
 Analytical Method: Trace VOA
 Matrix: WATER
 Sample wt/vol: 25.0 (g/mL) mL
 % Solids: _____
 GC Column: RTX-VMS ID: 0.25 (mm)
 Extract Concentrated:(Y/N) _____
 Soil Aliquot (VOA): _____ (uL)
 Heated Purge:(Y/N) Y
 Purge Volume: 25.0 (mL)
 Cleanup Types: _____
 Concentration Units (ug/L, ug/kg): ug/L

Contract: 97756
 MA No.: _____ SDG No.: TV1219
 Level: TRACE
 Lab Sample ID: 1934066017
 Lab File ID: MX33C017
 Date Received: 12/05/2019
 Date Extracted: _____
 Date Analyzed: 12/10/2019
 Extract Volume: _____ (uL)
 Extraction Type: PT
 Injection Volume: _____ (uL)
 pH: 1.0 Dilution Factor: 1.0
 Cleanup Factor: _____

CAS No.	ANALYTE	RT	EST. CONC.	Q
01				
02				
03				
04				
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25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes		N/A	

¹ EPA-designated Registry Number.

BR 12/31/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

SP-MW108D-214-120519

Lab Name:	ALS Environmental (SLC)	Contract:	97756
Lab Code:	ALS	MA No.:	SDG No.:
Case No.:	5POINTS		TV1219
Analytical Method:	Trace VOA	Level:	TRACE
Matrix:	WATER	Lab Sample ID:	1934066018
Sample wt/vol:	25.0 (g/mL) mL	Lab File ID:	MX34C018
% Solids:		Date Received:	12/05/2019
GC Column:	RTX-VMS	Date Extracted:	
GC Column:	ID: 0.25 (mm)	Date Analyzed:	12/10/2019
Extract Concentrated:(Y/N)		Extract Volume:	(uL)
Soil Aliquot (VOA):	(uL)	Extraction Type:	PT
Heated Purge:(Y/N)	Y	Injection Volume:	(uL)
Purge Volume:	25.0 (mL)	pH:	1.0
Cleanup Types:		Dilution Factor:	1.0
Concentration Units (ug/L, mg/L, ug/kg):	ug/L	Cleanup Factor:	

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromoform	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.

5P-MW108D-214-120519

Lab Name: ALS Environmental (SLC) Contract: 97756
 Lab Code: ALS Case No.: 5POINTS MA No.: _____ SDG No.: TV1219
 Analytical Method: Trace VOA Level: TRACE
 Matrix: WATER Lab Sample ID: 1934066018
 Sample wt/vol: 25.0 (g/mL) mL Lab File ID: MX34C018
 % Solids: _____ Date Received: 12/05/2019
 GC Column: RTX-VMS ID: 0.25 (mm) Date Extracted: _____
 GC Column: _____ ID: _____ (mm) Date Analyzed: 12/10/2019
 Extract Concentrated:(Y/N) _____ Extract Volume: _____ (uL)
 Soil Aliquot (VOA): _____ (uL) Extraction Type: PT
 Heated Purge:(Y/N) Y Injection Volume: _____ (uL)
 Purge Volume: 25.0 (mL) pH: 1.0 Dilution Factor: 1.0
 Cleanup Types: _____ Cleanup Factor: _____
 Concentration Units (ug/L, mg/L, ug/kg): ug/L

CAS NO.	ANALYTE	CONCENTRATION	Q
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-Pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	2.1	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

BR 12/31/19

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5P-MW108D-214-120519

Lab Name:	ALS Environmental (SLC)	Contract:	97756
Lab Code:	ALS	MA No.:	SDG No.: TV1219
Analytical Method:	Trace VOA	Level:	TRACE
Matrix:	WATER	Lab Sample ID:	1934066018
Sample wt/vol:	25.0 (g/mL) mL	Lab File ID:	MX34C018
% Solids:		Date Received:	12/05/2019
GC Column:	RTX-VMS	Date Extracted:	
Extract Concentrated:(Y/N)		Date Analyzed:	12/10/2019
Soil Aliquot (VOA):	(uL)	Extract Volume:	(uL)
Heated Purge:(Y/N)	Y	Extraction Type:	PT
Purge Volume:	25.0 (mL)	Injection Volume:	(uL)
Cleanup Types:		pH:	1.0 Dilution Factor:
Concentration Units (ug/L, ug/kg):	ug/L	Cleanup Factor:	

	CAS No.	ANALYTE	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
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27					
28					
29					
30					
	E966796 ¹	Total Alkanes		N/A	

¹ EPA-designated Registry Number.

BR 12/31/19

Attachment 4

**Monitoring Well and Water Level/PCE
Information and Hydrographs**

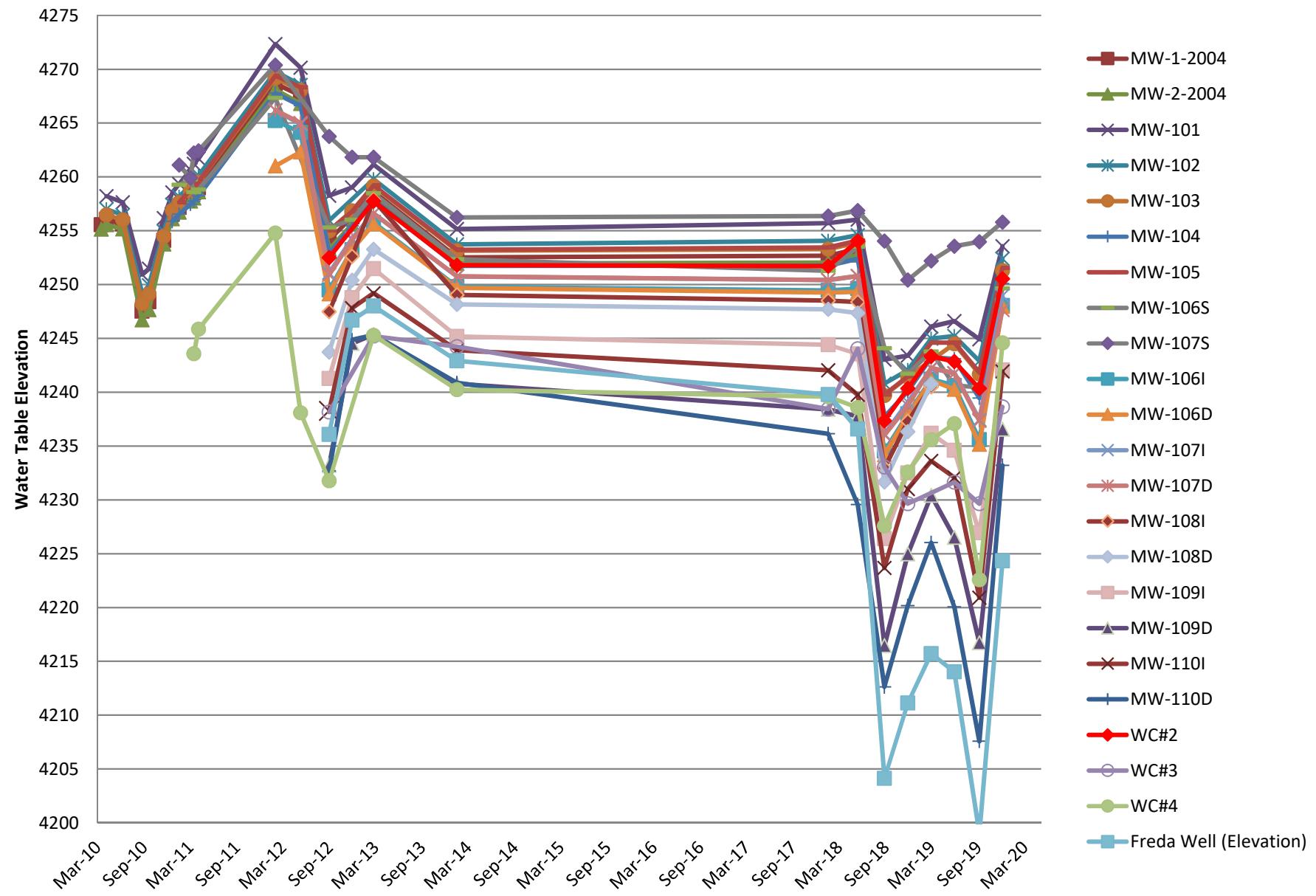
Attachment 4 - Well Hydrographs
Five Points PCE Plume Site
PCE Concentrations and Water Table Elevations

DTW	Sample	MW 1-2004			MW 2-2004			MW-101			MW-102			MW-103				
		Date	Date	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L
3/16/2010	NA	100.65	4255.55	NA	103.53	4255.13	NA											
4/6/2010	4/6/2010	100.17	4256.03	2.6	103.1	4255.56	0.31	143.32	4258.21	7	106.89	4257.01	0	103.5	4256.47	0		
6/9/2010	NA	100.58	4255.62	NA	103.49	4255.17	NA	143.88	4257.65	NA	107.45	4256.45	NA	103.95	4256.02	NA		
8/24/2010	NA	108.68	4247.52	NA	111.95	4246.71	NA	150.61	4250.92	NA	114.76	4249.14	NA	111.74	4248.23	NA		
9/20/2010	9/20/2010	107.8	4248.40	9.3	111	4247.66	0.73	150.05	4251.48	37	113.96	4249.94	0	110.85	4249.12	0.13		
11/18/2010	NA	102.1	4254.10	NA	104.91	4253.75	NA	145.36	4256.17	NA	108.95	4254.95	NA	105.5	4254.47	NA		
12/21/2010	NA	99.68	4256.52	NA	102.56	4256.10	NA	142.97	4258.56	NA	106.49	4257.41	NA	103.08	4256.89	NA		
1/17/2011	1/27/2011	99.04	4257.16	3.6	101.95	4256.71	0.32	142.17	4259.36	31	105.73	4258.17	NA	102.36	4257.61	0.18		
3/3/2011	NA	97.98	4258.22	NA	100.92	4257.74	NA	140.89	4260.64	NA	104.66	4259.24	NA	101.28	4258.69	NA		
3/16/2011	NA	97.65	4258.55	NA	100.63	4258.03	NA	140.3	4261.23	NA	104.25	4259.65	NA	100.91	4259.06	NA		
4/4/2011	NA	97.2	4259.00	NA	100.05	4258.61	NA	139.82	4261.71	NA	103.75	4260.15	NA	100.46	4259.51	NA		
1/31/2012	2/2/2012	87.52	4268.68	39	90.54	4268.12	0.92	129.18	4272.35	12	94.1	4269.80	NA	90.8	4269.17	0.19		
5/10/2012	5/15/2012	88.64	4267.56	13	91.85	4266.81	1.5	131.38	4270.15	8	95.35	4268.55	NA	91.93	4268.04	0.19		
8/30/2012	8/30/2012	102.04	4254.16	46	105.36	4253.30	1.4	143.28	4258.25	1.4	107.95	4255.95	NA	104.98	4254.99	0.35		
11/28/2012	11/28/2012	99.91	4256.29	22	103.05	4255.61	1	142.51	4259.02	2.3	NA	NA	NA	103.12	4256.85	0.15		
2/21/2013	2/26/2013	97.54	4258.66	21	100.56	4258.10	2.2	140.37	4261.16	2.1	104.11	4259.79	NA	100.81	4259.16	0		
1/16/2014	1/28/2014	103.68	4252.52	9.5	106.7	4251.96	0.25	146.37	4255.16	14	110.17	4253.73	NA	106.84	4253.13	0.14		
1/17/2018	2/16/2018	103.52	4252.68	3.7	106.61	4252.05	0.19	145.81	4255.72	13	109.84	4254.06	NA	106.68	4253.29	0.17		
5/14/2018	5/16/2018	102.88	4253.32	1.4	105.93	4252.73	0.17	145.48	4256.05	27	109.32	4254.58	NA	106.07	4253.90	0.17		
8/27/2018	8/29/2018	NA	NA	NA	NA	NA	NA	158.5	4243.03	23	123.1	4240.80	NA	120.27	4239.70	<0.50		
11/27/2018	11/29/2018	NA	NA	NA	NA	NA	NA	158.12	4243.41	21	121.84	4242.06	NA	118.57	4241.40	0.19 J		
2/25/2019	2/27/2019	NA	NA	NA	NA	NA	NA	155.43	4246.10	29	118.92	4244.98	NA	NM	NM	NS		
5/24/2019	5/29/2019	NA	NA	NA	NA	NA	NA	154.93	4246.60	41 J	118.68	4245.22	NA	115.47	4244.50	<0.50		
9/3/2019	9/5/2019	NA	NA	NA	NA	NA	NA	156.61	4244.92	43	121.01	4242.89	NA	118.28	4241.69	0.096		
12/3/2019	12/5/2019	NA	NA	NA	NA	NA	NA	147.97	4253.56	12	111.51	4252.39	NA	108.68	4251.29	0.1		
DTW	Sample	MW-104			MW-105			MW-106S			MW-106I			MW-106D				
		Date	Date	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L
3/16/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
4/6/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
6/9/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
8/24/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
9/20/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
11/18/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
12/21/2010	NA	83.61	4255.86	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1/17/2011	1/27/2011	82.92	4256.55	19	127.06	4257.63	0.9	45.91	4259.27	0	NA							
3/3/2011	NA	82	4257.47	NA	125.92	4258.77	NA	45.41	4259.77	NA								
3/16/2011	NA	81.72	4257.75	NA	125.56	4259.13	NA	46.6	4258.58	NA								
4/4/2011	NA	81.23	4258.24	NA	125.15	4259.54	NA	46.36	4258.82	NA								
1/31/2012	2/2/2012	71.7	4267.77	26	115.3	4269.39	0.76	37.84	4267.34	0	39.94	4265.22	9.6	44.16	4261.01	1.0		
5/10/2012	5/15/2012	72.85	4266.62	14	116.37	4268.32	0.26	NA	NA	NA	41.02	4264.14	7.8	42.85	4262.32	1.2		
8/30/2012	8/30/2012	86.59	4252.88	18	129.67	4255.02	0.18	49.89	4255.29	NA	55.67	4249.49	8.4	56.05	424			

Attachment 4 - Well Hydrographs
Five Points PCE Plume Site
PCE Concentrations and Water Table Elevations

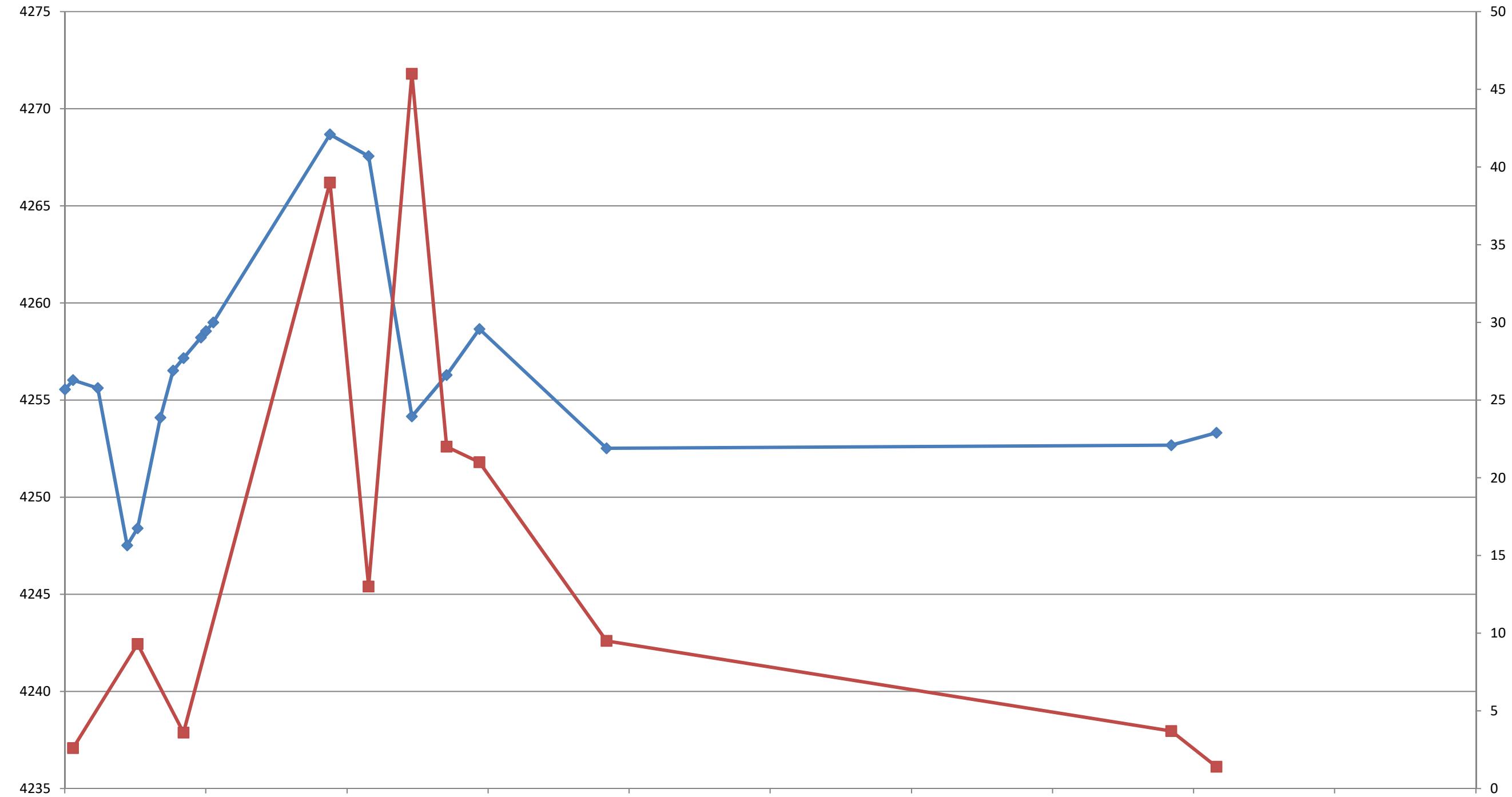
DTW	Sample	MW-107S			MW-107I			MW-107D			MW-108I			MW-108D			
		Date	Date	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)
3/16/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4/6/2010	4/6/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
6/9/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8/24/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/20/2010	9/20/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
11/18/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
12/21/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1/17/2011	1/27/2011	46.16	4261.11	0	NA												
3/3/2011	NA	47.38	4259.89	NA													
3/16/2011	NA	45.04	4262.23	NA													
4/4/2011	NA	44.86	4262.41	NA													
1/31/2012	2/2/2012	36.89	4270.38	0	40.70	4266.19	1.2	40.76	4266.19	1.4	NA						
5/10/2012	5/15/2012	NA	NA	NA	42.00	4264.89	1	41.94	4265.01	1.3	NA						
8/30/2012	8/30/2012	43.50	4263.77	NA	55.82	4251.07	1.1	56.04	4250.91	1.7	36.99	4247.47	1.00	40.74	4243.73	7.2	
11/28/2012	11/28/2012	45.45	4261.82	NA	52.60	4254.29	1.2	52.81	4254.14	1.5	31.85	4252.61	0.71	34.08	4250.39	4.7	
2/21/2013	2/26/2013	45.44	4261.83	NA	50.28	4256.61	1.2	50.34	4256.61	2.3	26.6	4257.86	0.88	31.19	4253.28	6.5	
1/16/2014	1/28/2014	51.03	4256.24	NA	56.15	4250.74	1.3	56.17	4250.78	1.7	35.42	4249.04	0.93	36.31	4248.16	5.9	
1/17/2018	2/16/2018	50.90	4256.37	NA	56.48	4250.41	0.5	56.54	4250.41	2.0	35.95	4248.51	0.35	36.76	4247.71	3.0	
5/14/2018	5/16/2018	50.39	4256.88	NA	56.10	4250.79	0.3	56.16	4250.79	0.13	36.09	4248.37	0.33	37.13	4247.34	1.7	
8/27/2018	8/29/2018	53.22	4254.05	NA	70.77	4236.12	0.26	70.93	4236.02	0.29	51.5	4232.96	0.48	52.8	4231.67	3.0	
11/27/2018	11/29/2018	56.85	4250.42	NA	67.82	4239.07	0.16 J	68.21	4238.74	1.2	47.17	4237.29	0.65	48.13	4236.34	3.0	
2/25/2019	2/27/2019	55.08	4252.19	NA	64.68	4242.21	0.35	64.7	4242.25	0.44	43.96	4240.50	0.58	43.71	4240.76	3.2	
5/24/2019	5/29/2019	53.71	4253.56	NA	65.12	4241.77	<0.50	65.2	4241.75	<0.50	44.86	4239.60	0.51	45.94	4238.53	2.0	
9/3/2019	9/5/2019	53.30	4253.97	NA	69.44	4237.45	0.27	69.61	4237.34	0.3	50.54	4233.92	0.42	52.09	4232.38	1.9	
12/3/2019	12/5/2019	51.47	4255.80	NA	57.91	4248.98	0.45	59.31	4247.64	1.4	37.16	4247.30	0.44	37.80	4246.67	2.1	
DTW	Sample	MW-109I			MW-109D			MW-110I			MW-110D						
		Date	Date	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L	DTW (ft)	WTE (ft)	PCE ug/L		
3/16/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4/6/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
6/9/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8/24/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/20/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
11/18/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
12/21/2010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1/17/2011	1/27/2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3/3/2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3/16/2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4/4/2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1/31/2012	2/2/2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5/10/2012	5/15/2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8/30/2012	8/30/2012	43.13	4241.26	0.59	51.23	4233.19	0.26	31.2	4238.26	0.3	36.79	4232.68	2.2				
11/28/2012	11/28/2012	35.62	4248.77	1.2	39.9	4244.52	0.21	21.66	4247.80	0	24.6	4244.87	2.2				
2/21/2013	2/26/2013	32.91	4251.48	1.5	39.06	4245.36	0.6	20.26	4249.20	0.12	24.15	4245.32	2.6				
1/16/2014	1/28/2014	39.21	4245.18	1.0	43.63	4240.79	0.66	25.56	4243.90	0	28.59	4240.88	2.0				
1/17/2018	2/16/2018	39.99	4244.40	0.73	46.02	4238.4	0.98	27.41	4242.05	0	33.34	4236.13	0.67				
5/14/2018	5/16/2018	40.83	4243.56	0.46	46.65	4237.77	0.64	29.7	4239.76	0	39.91	4229.56	0				

Well Hydrographs



**Well Installed
2004**

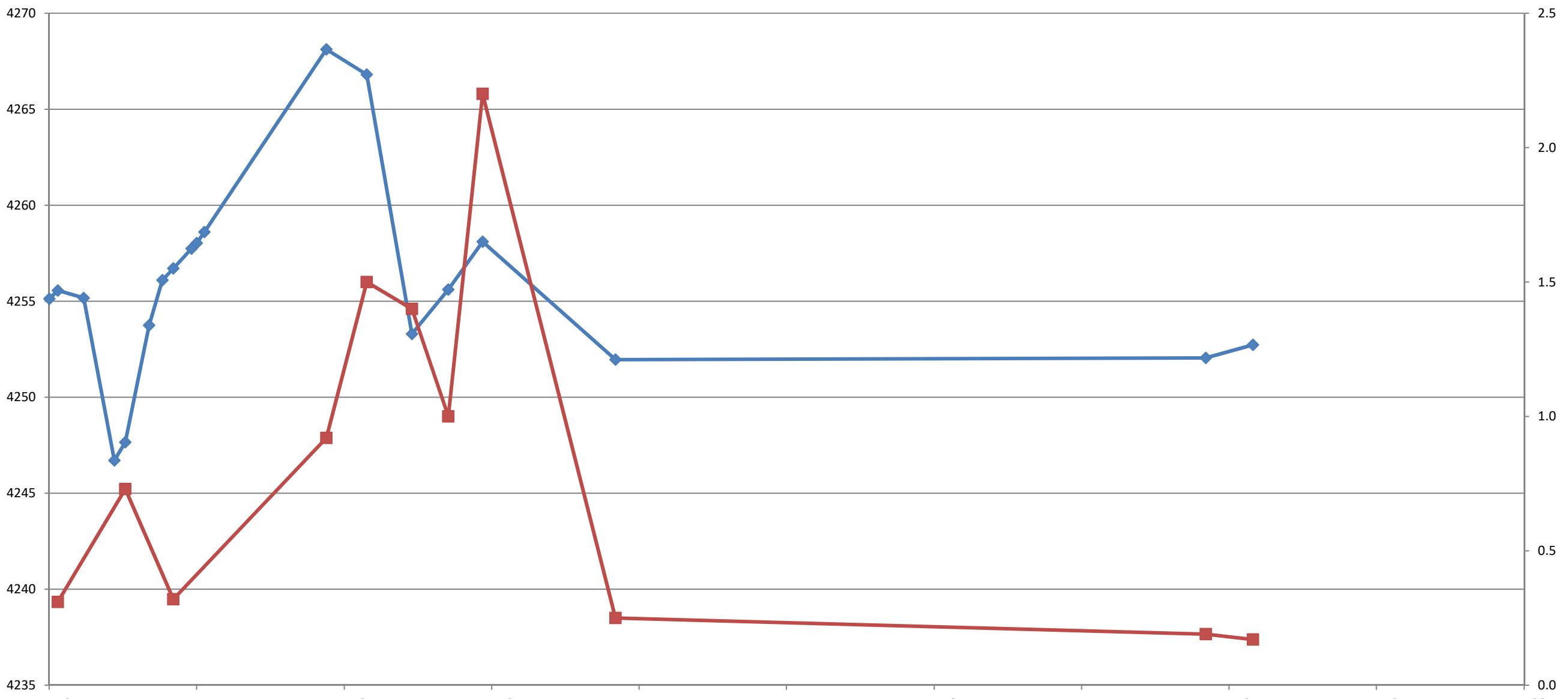
MW 1-2004



	Mar-10	Apr-10	Jun-10	Aug-10	Sep-10	Nov-10	Dec-10	Jan-11	Mar-11	Mar-12	Apr-11	Jan-12	May-12	Aug-12	Nov-12	Feb-13	Jan-14	Jan-18	May-18	Aug-18	Nov-18	Feb-19	May-19	Sep-19	Dec-19
Water Table Elevation (ft)	4255.55	4256.03	4255.62	4247.52	4248.40	4254.10	4256.52	4257.16	4258.22	4258.55	4259.00	4268.68	4267.56	4254.16	4256.29	4258.66	4252.52	4252.68	4253.32						
PCE Conc. (ug/L)		2.60			9.30			3.60				39.00	13.00	46.00	22.00	21.00	9.50	3.70	1.40						

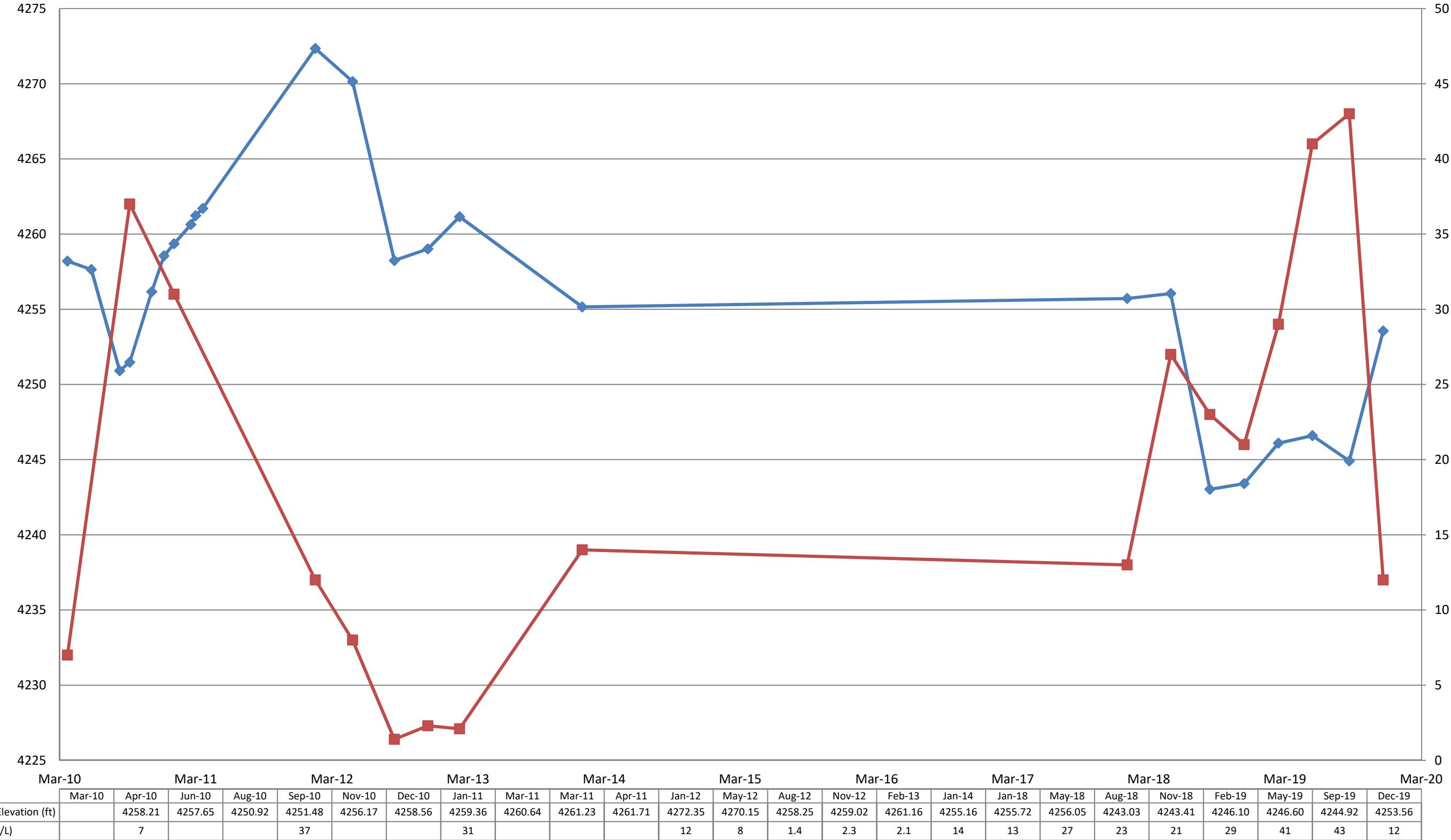
**Well Installed
2004**

MW 2-2004



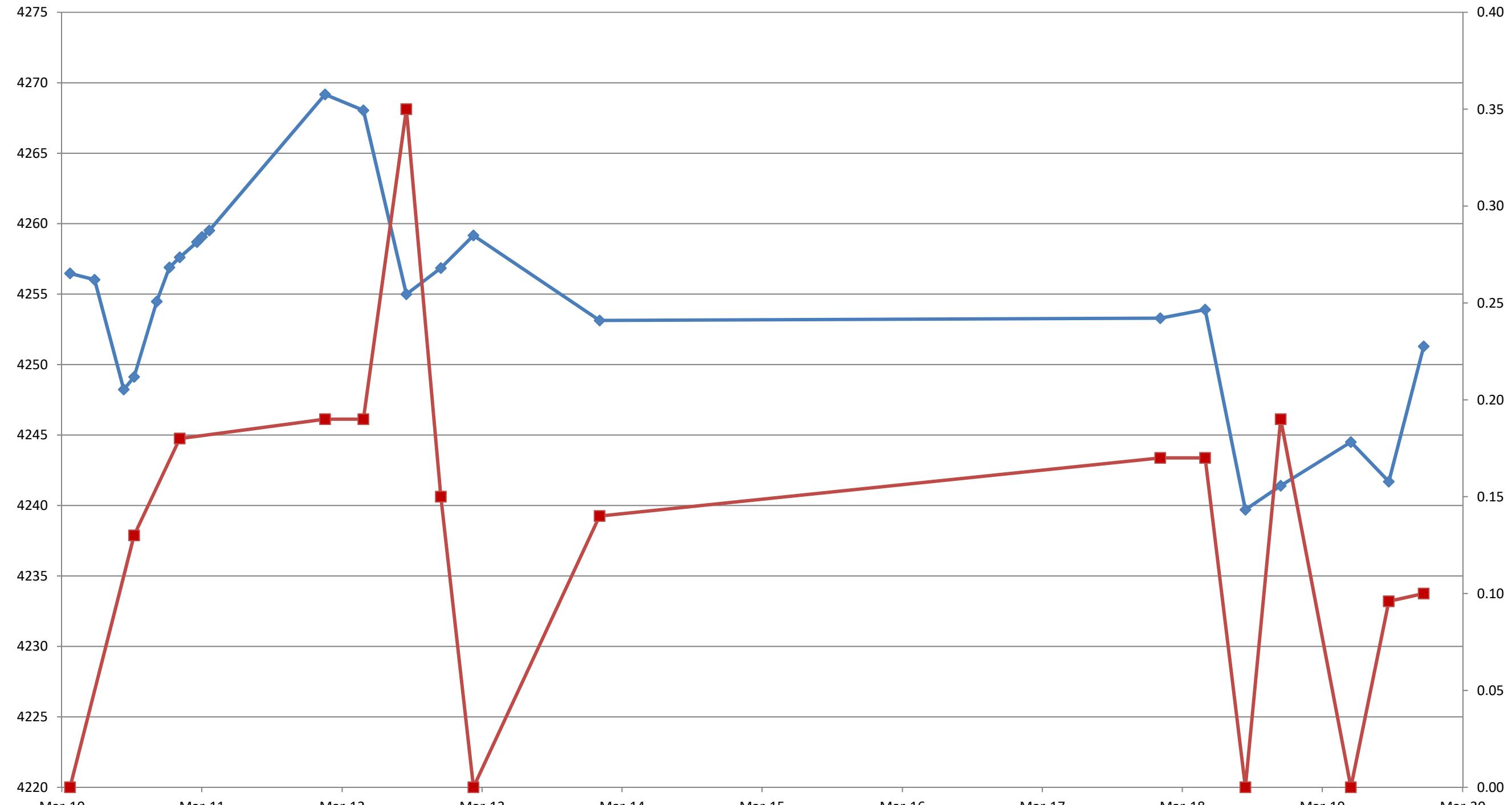
Well Installed
3/10/2010

MW-101



Well Installed
3/22/2010

MW-103

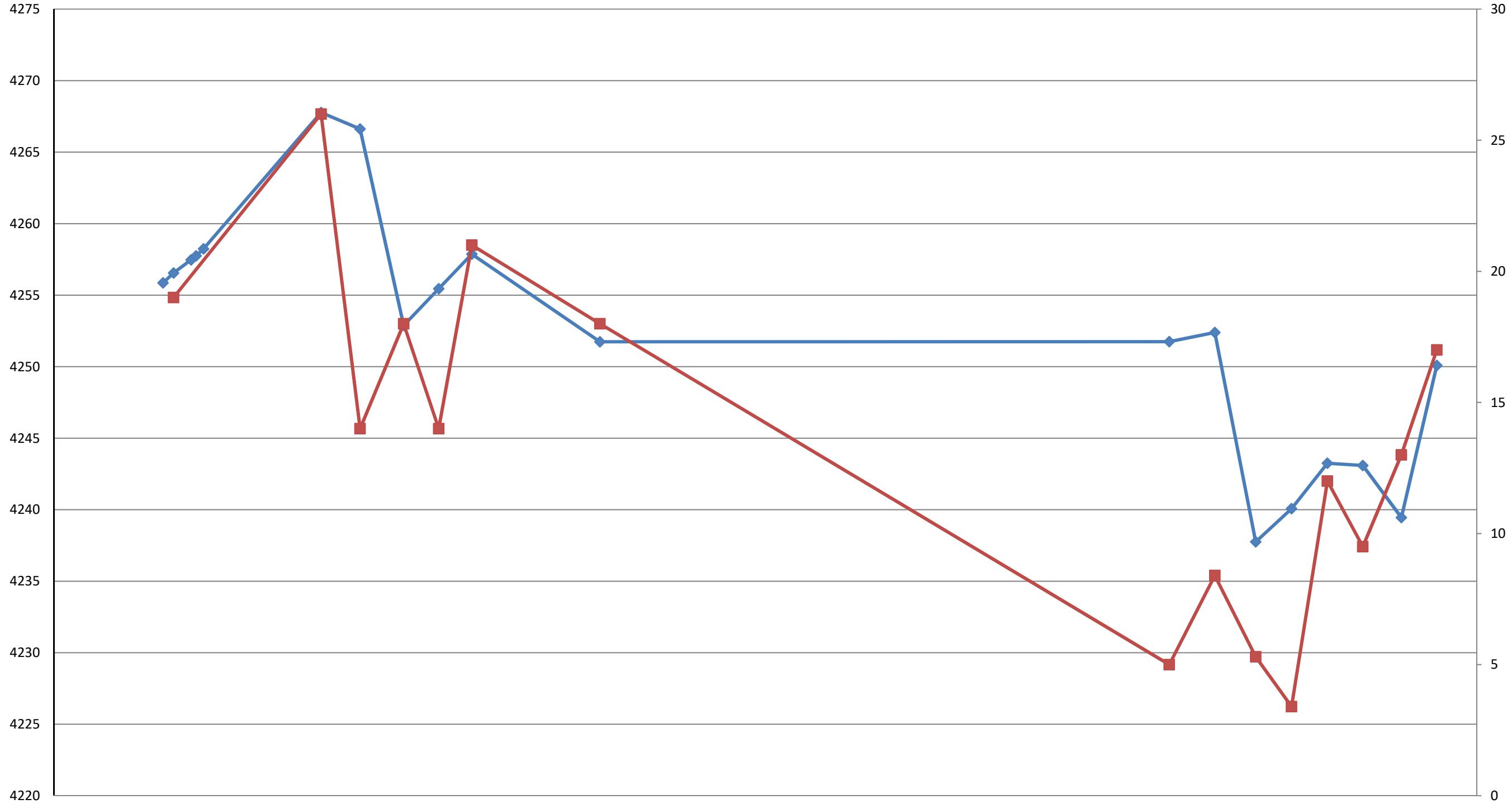


NM - Not measured due to access issues

NS - Not sampled

Well Installed
12/6/2010

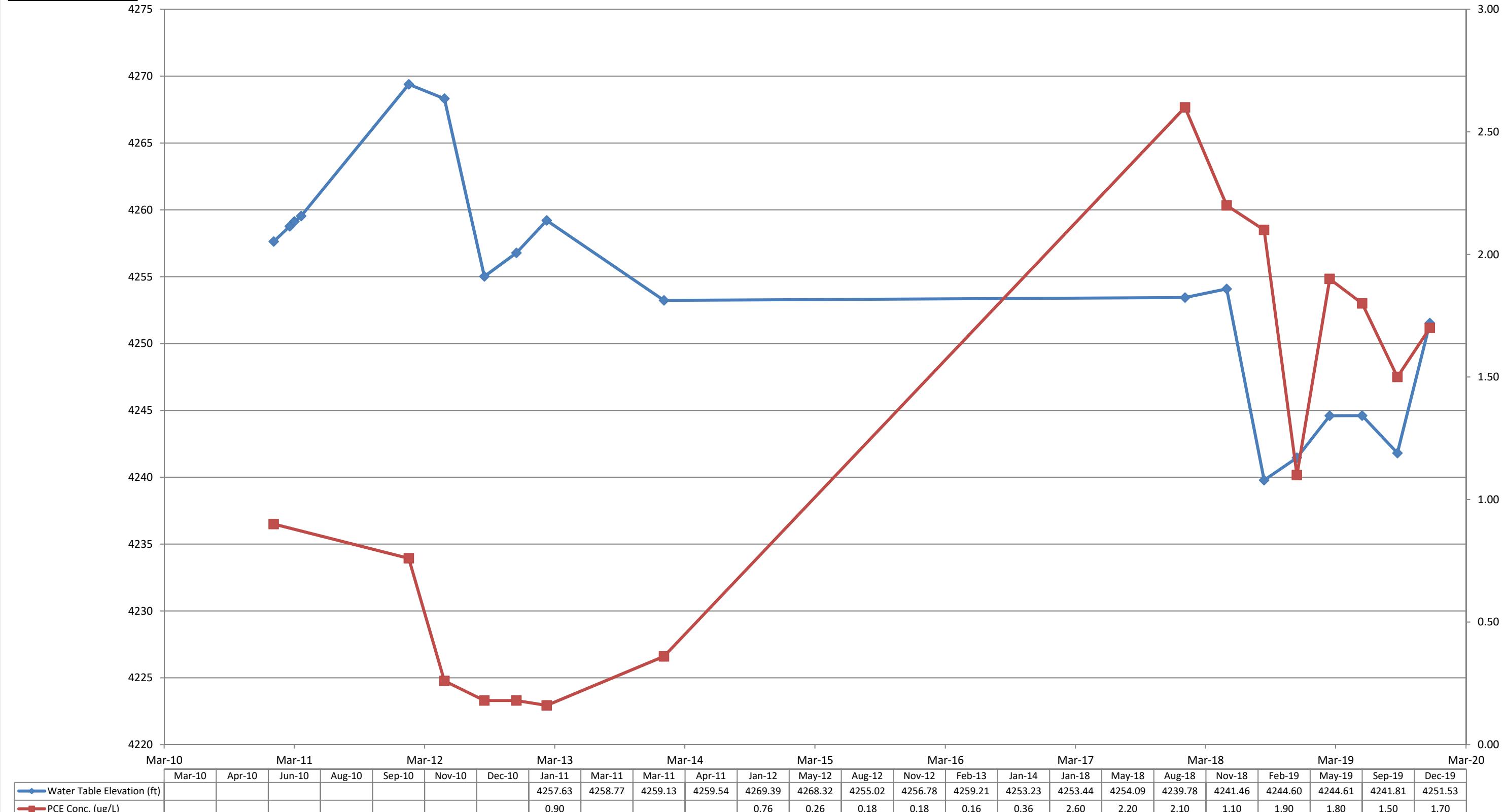
MW-104



	Mar-10	Apr-10	Jun-10	Aug-10	Sep-10	Nov-10	Dec-10	Jan-11	Mar-11	Apr-11	Jan-12	May-12	Aug-12	Nov-12	Feb-13	Jan-14	Jan-18	May-18	Aug-18	Nov-18	Feb-19	May-19	Sep-19	Dec-19	
Water Table Elevation (ft)							4255.86	4256.55	4257.47	4257.75	4258.24	4267.77	4266.62	4252.88	4255.45	4257.87	4251.74	4251.75	4252.39	4237.75	4240.07	4243.25	4243.09	4239.45	4250.09
PCE Conc. (ug/L)								19.00			26.00	14.00	18.00	14.00	21.00	18.00	5.00	8.40	5.30	3.40	12.00	9.50	13.00	17.00	

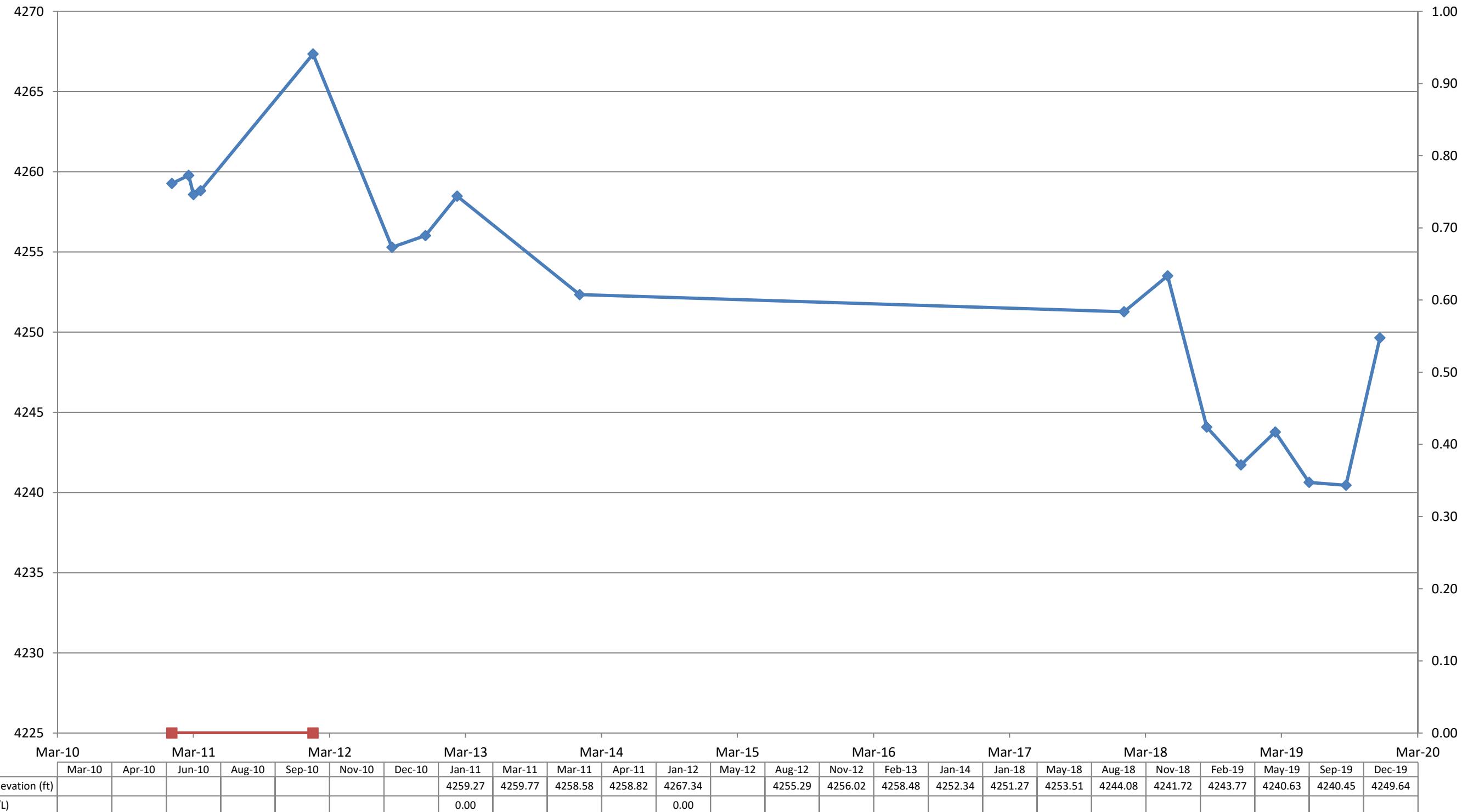
Well Installed
12/2/2010

MW-105



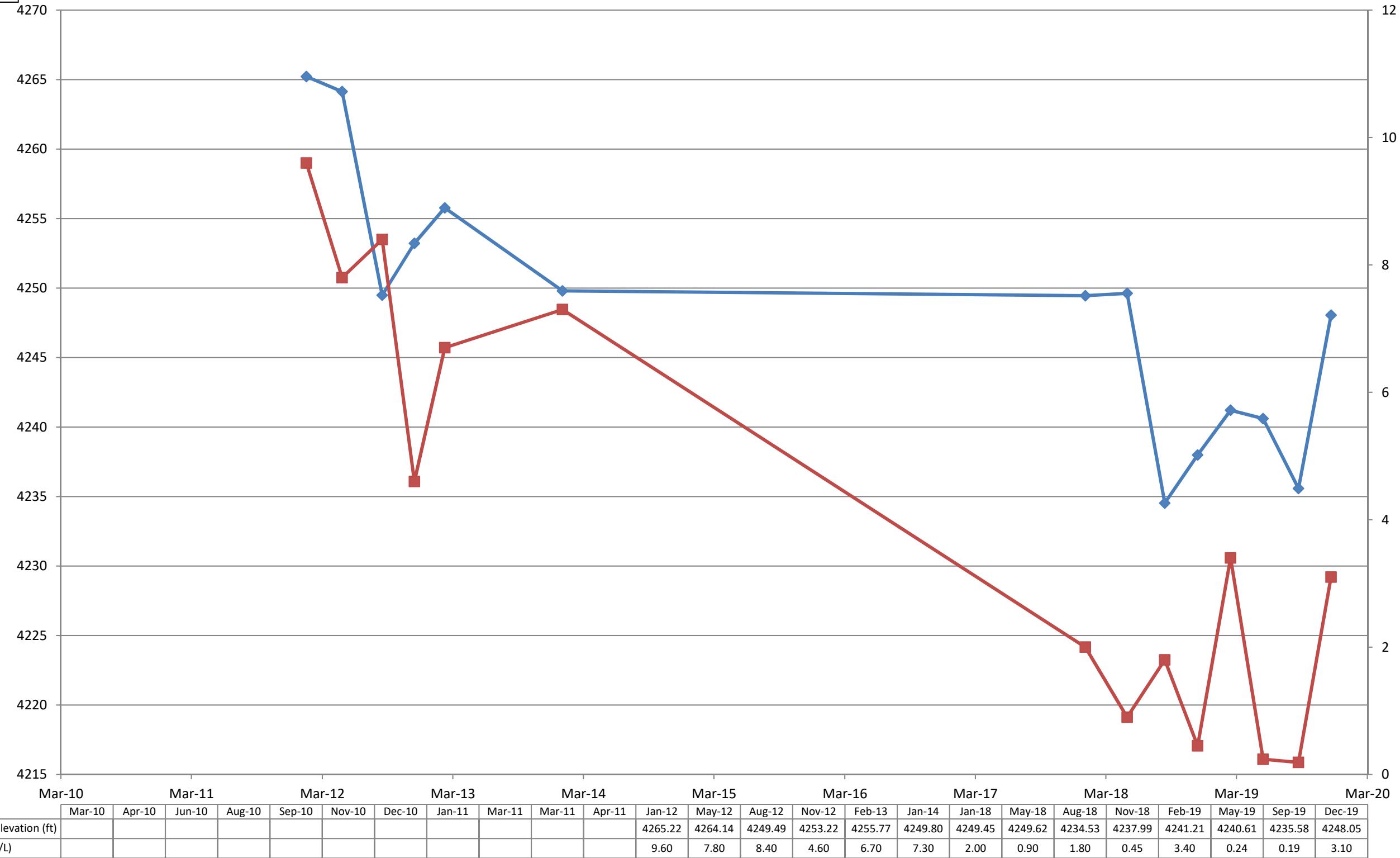
Well Installed
1/5/2011

MW-106S



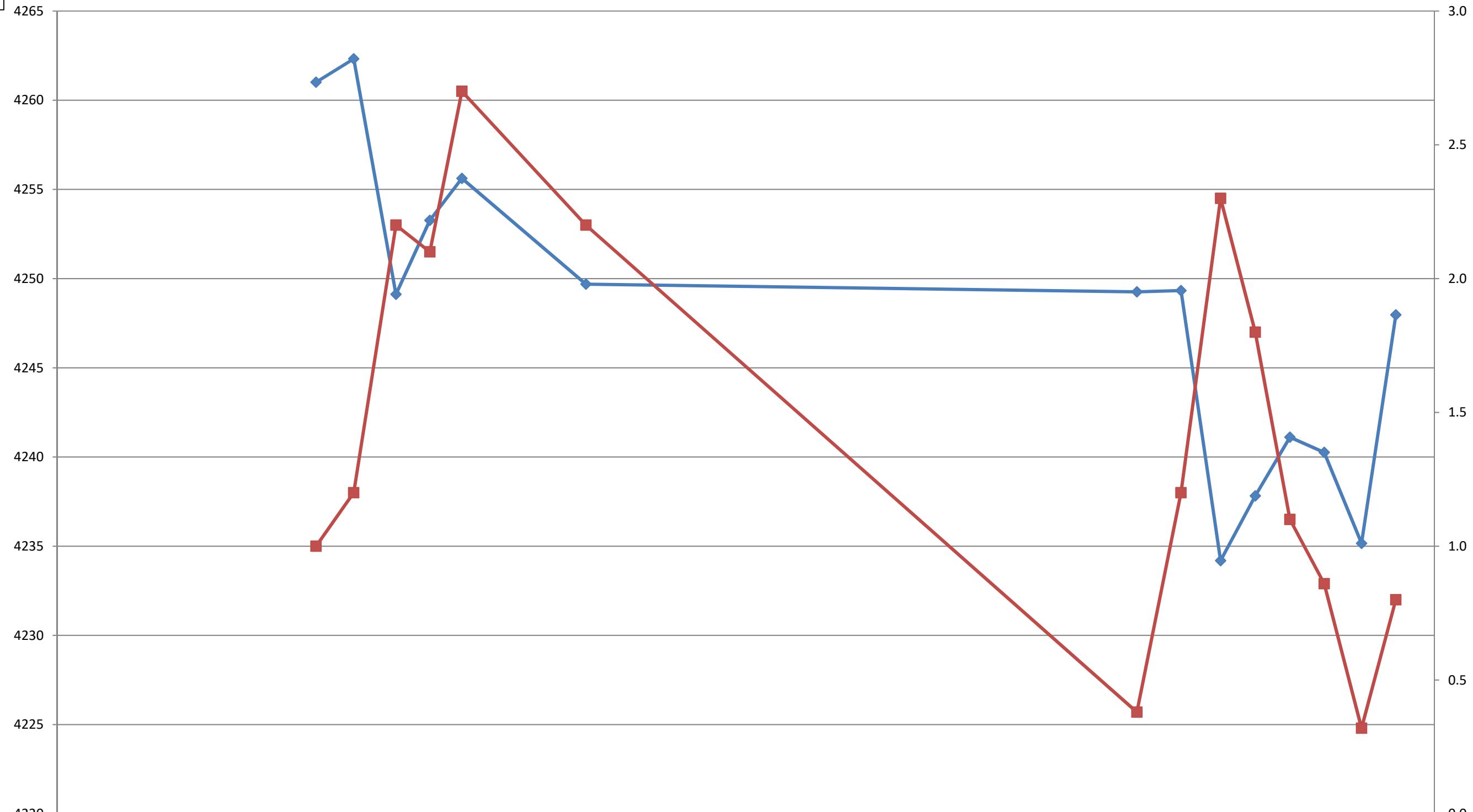
Well Installed
12/22/11

MW-106I



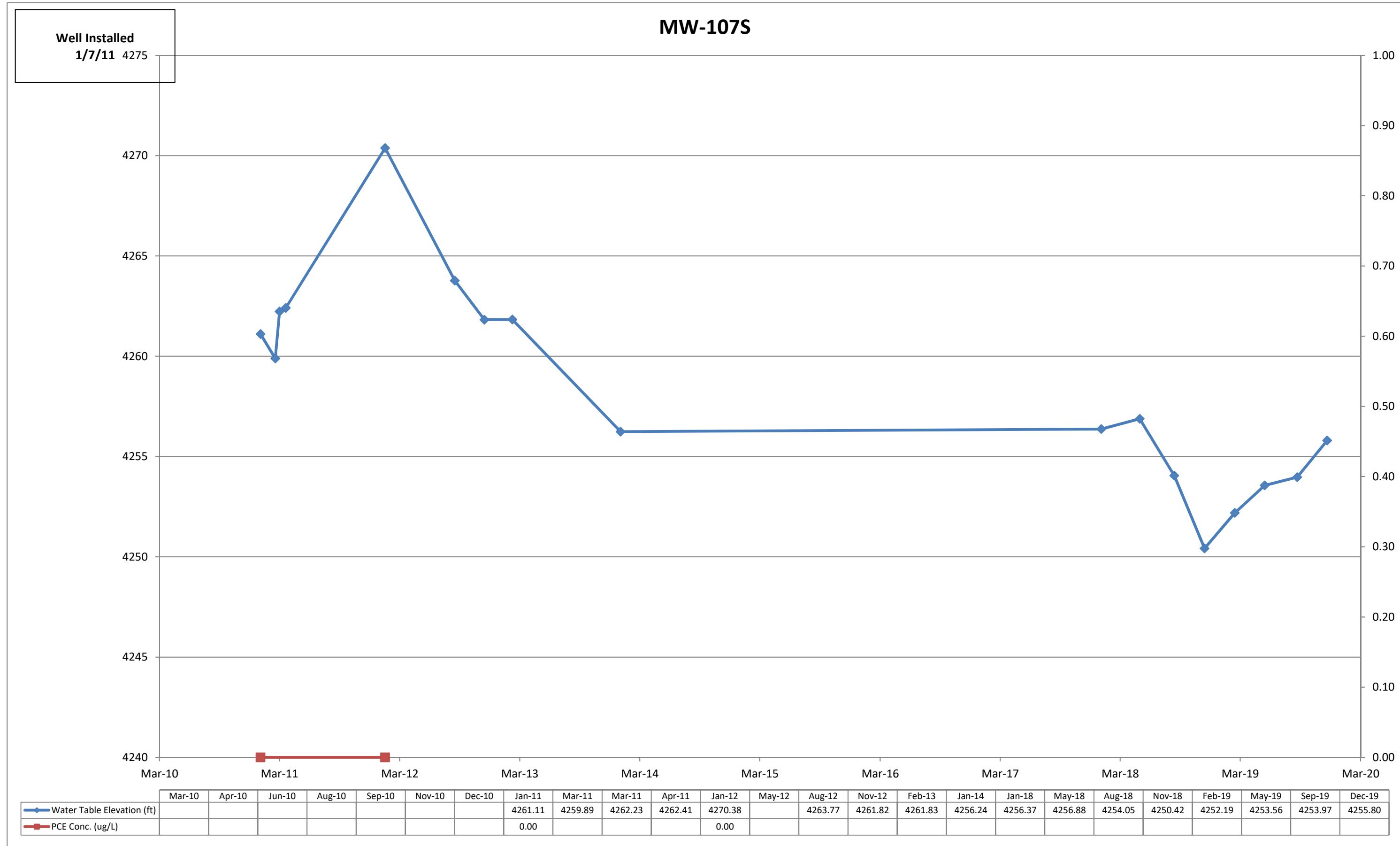
Well Installed
12/22/11

MW-106D



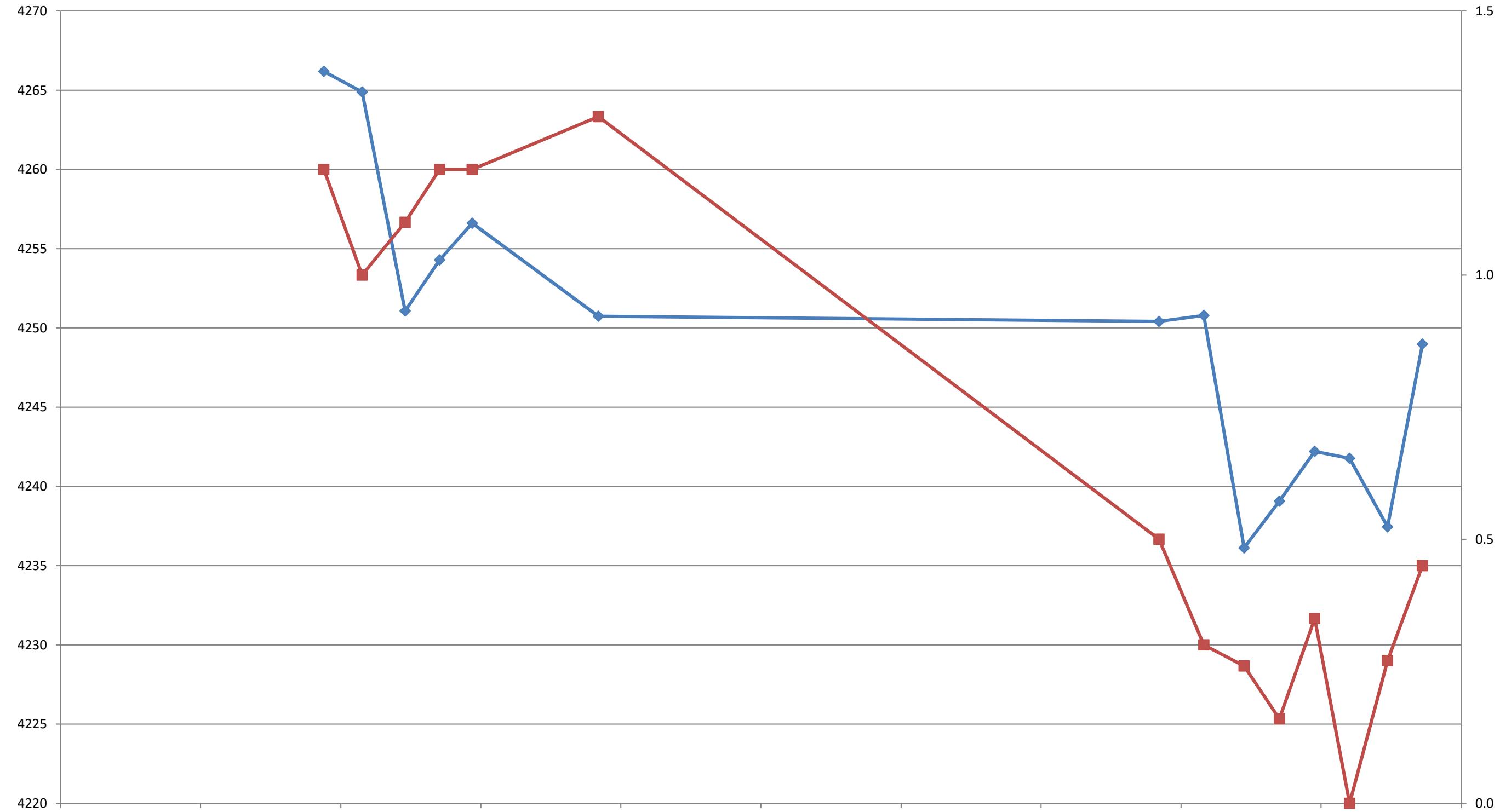
	Mar-10	Apr-10	Jun-10	Aug-10	Sep-10	Nov-10	Dec-10	Jan-11	Mar-11	Mar-11	Apr-11	Jan-12	May-12	Aug-12	Nov-12	Feb-13	Jan-14	Jan-18	May-18	Aug-18	Nov-18	Feb-19	May-19	Sep-19	Dec-19
Water Table Elevation (ft)												4261.01	4262.32	4249.12	4253.27	4255.62	4249.69	4249.26	4249.33	4234.19	4237.82	4241.11	4240.26	4235.16	4247.97
PCE Conc. (ug/L)												1.00	1.20	2.20	2.10	2.70	2.20	0.38	1.20	2.30	1.80	1.10	0.86	0.32	0.80

MW-107S



Well Installed
12/9/2011

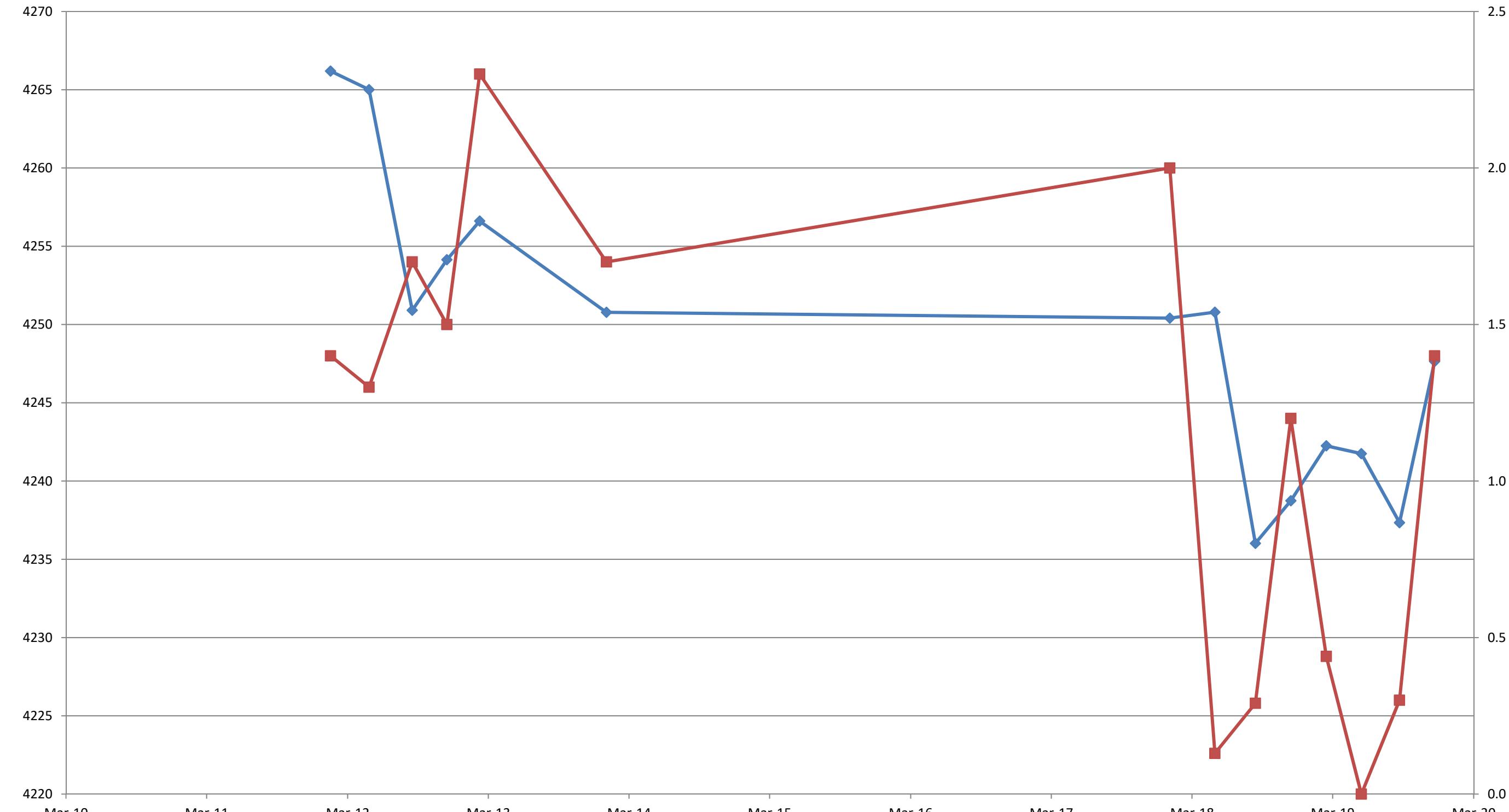
MW-107I



	Mar-10	Apr-10	Jun-10	Aug-10	Sep-10	Nov-10	Dec-10	Jan-11	Mar-11	Mar-12	Apr-11	May-12	Aug-12	Nov-12	Feb-13	Jan-14	Jan-18	May-18	Aug-18	Nov-18	Feb-19	May-19	Sep-19	Dec-19
Water Table Elevation (ft)										4266.19	4264.89	4251.07	4254.29	4256.61	4250.74	4250.41	4250.79	4236.12	4239.07	4242.21	4241.77	4237.45	4248.98	
PCE Conc. (ug/L)										1.20	1.00	1.10	1.20	1.20	1.30	0.50	0.30	0.30	0.26	0.16	0.35	0.00	0.27	0.45

Well Installed
12/9/2011

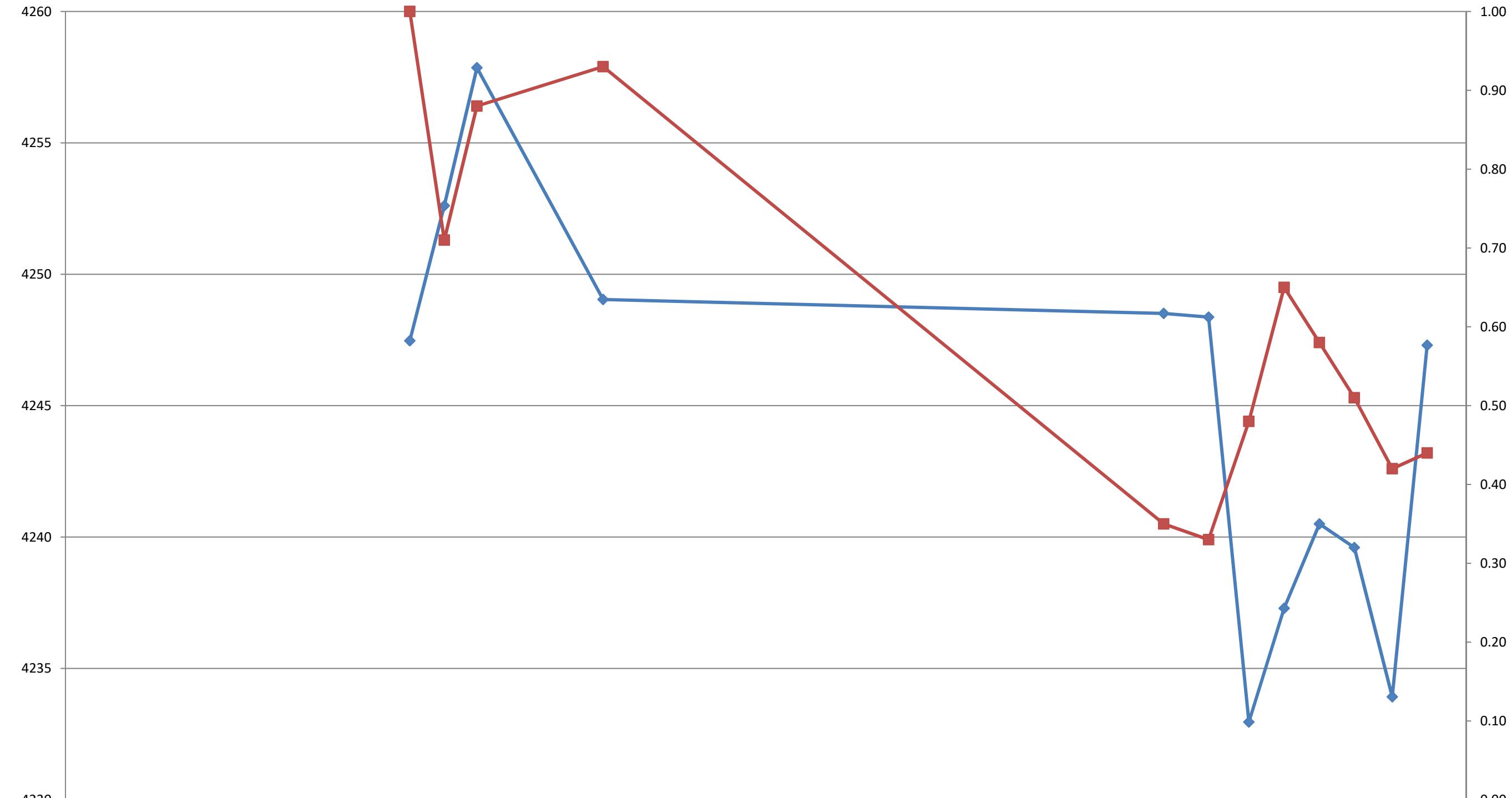
MW-107D



	Mar-10	Apr-10	Jun-10	Aug-10	Sep-10	Nov-10	Dec-10	Jan-11	Mar-11	Apr-11	Jan-12	May-12	Aug-12	Nov-12	Feb-13	Jan-14	Jan-18	May-18	Aug-18	Nov-18	Feb-19	May-19	Sep-19	Dec-19
Water Table Elevation (ft)											4266.19	4265.01	4250.91	4254.14	4256.61	4250.78	4250.41	4250.79	4236.02	4238.74	4242.25	4241.75	4237.34	4247.64
PCE Conc. (ug/L)											1.40	1.30	1.70	1.50	2.30	1.70	2.00	0.13	0.29	1.20	0.44	0.00	0.30	1.40

Well Installed
7/31/2012

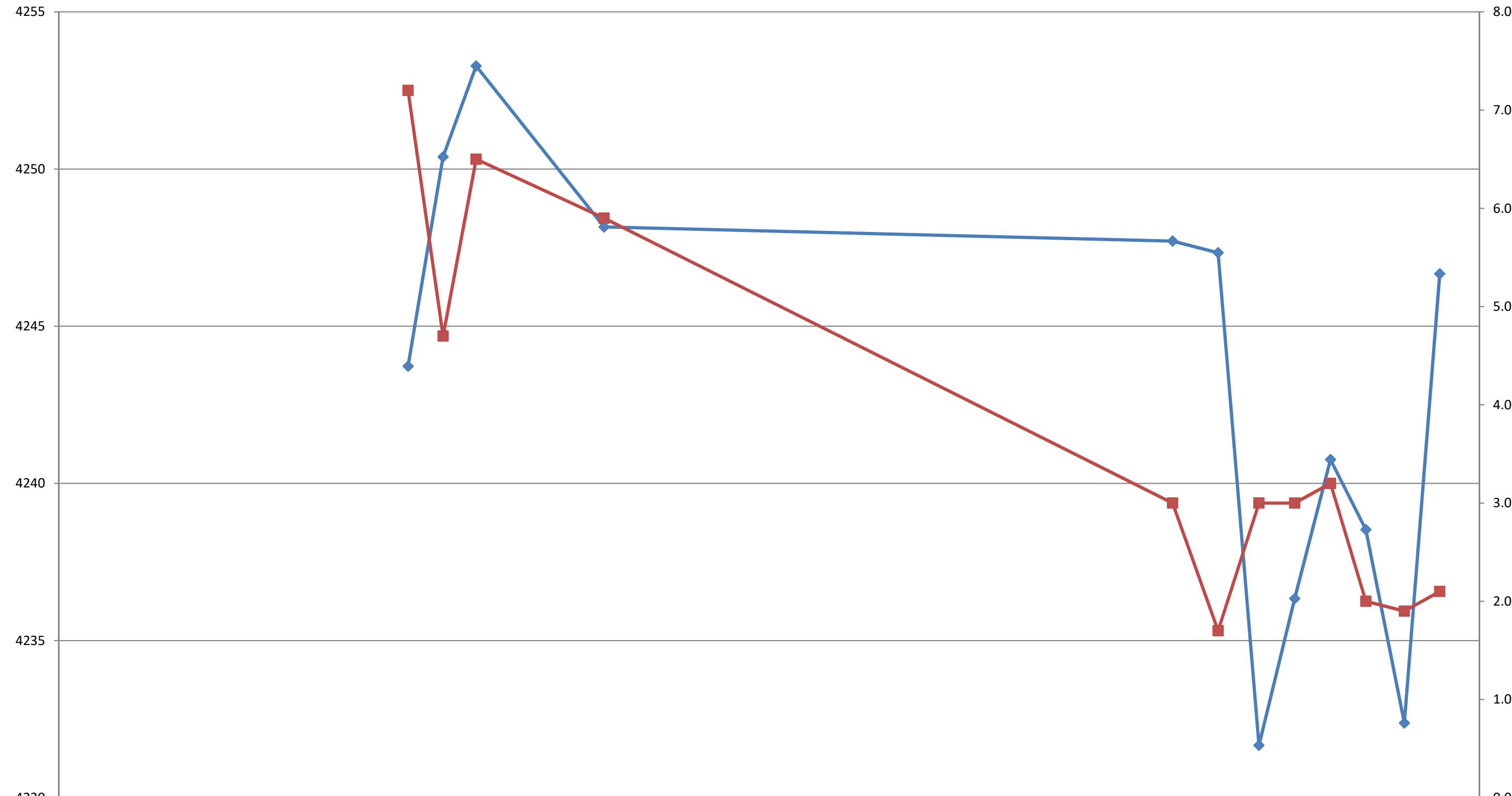
MW-108I



	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16</th
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Well Installed
7/31/2012

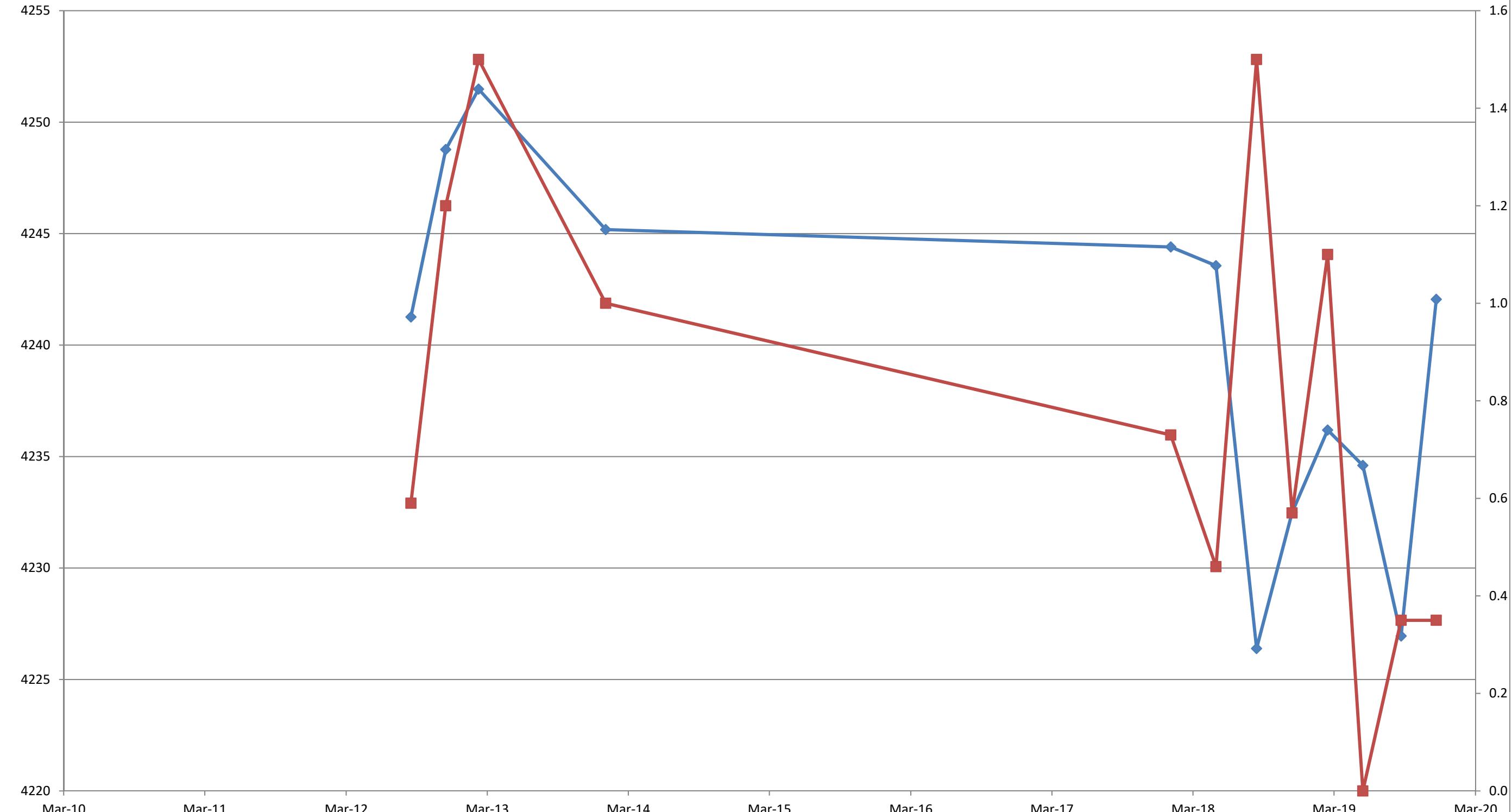
MW-108D



	Mar-10	Apr-10	Jun-10	Aug-10	Sep-10	Nov-10	Dec-10	Jan-11	Mar-11	Apr-11	Jan-12	May-12	Aug-12	Nov-12	Feb-13	Jan-14	Jan-18	May-18	Aug-18	Nov-18	Feb-19	May-19	Sep-19	Dec-19
Water Table Elevation (ft)													4243.73	4250.39	4253.28	4248.16	4247.71	4247.34	4231.67	4236.34	4240.76	4238.53	4232.38	4246.67
PCE Conc. (ug/L)													7.20	4.70	6.50	5.90	3.00	1.70	3.00	3.00	3.20	2.00	1.90	2.10

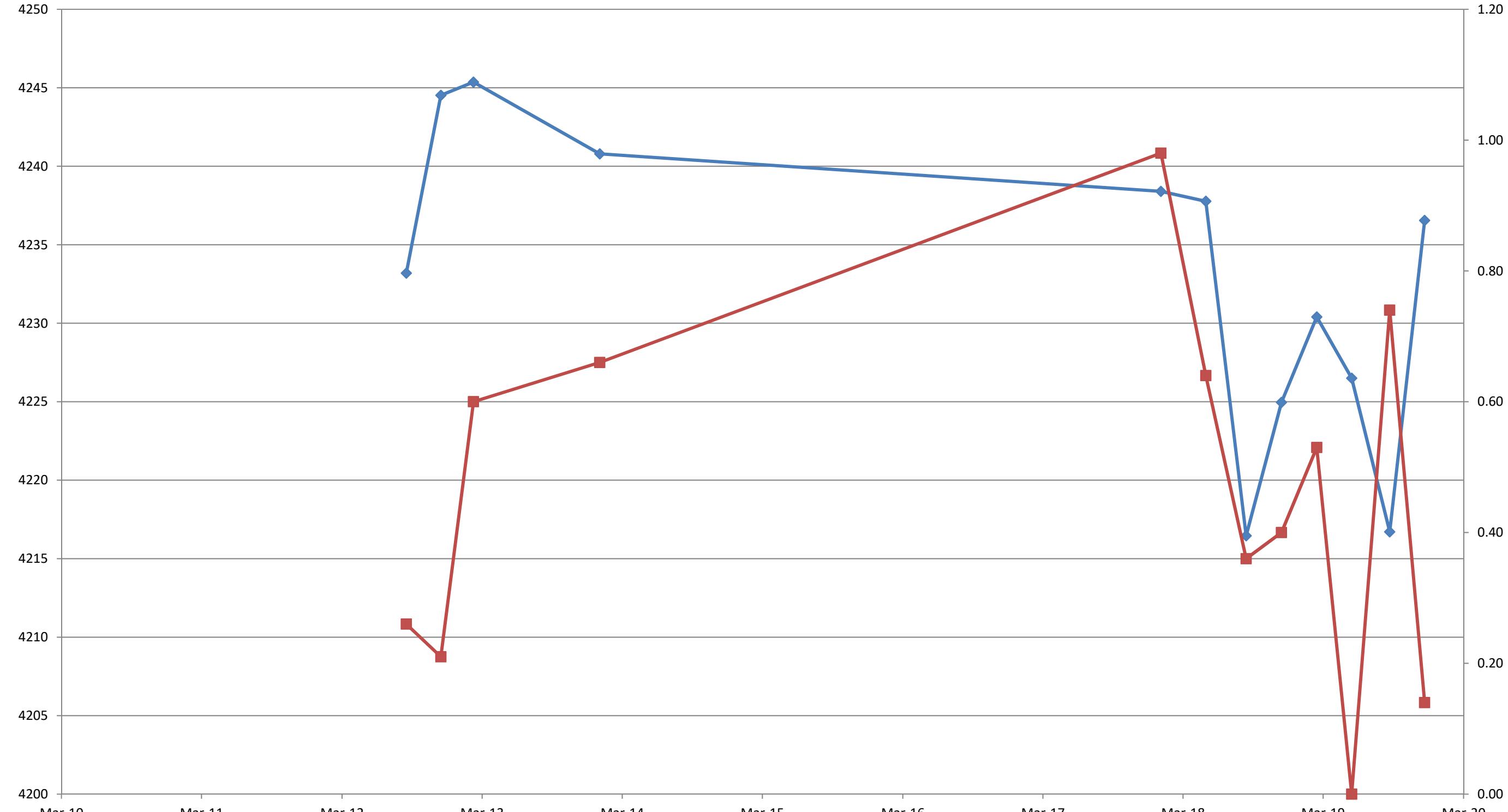
Well Installed
8/9/2012

MW-109I



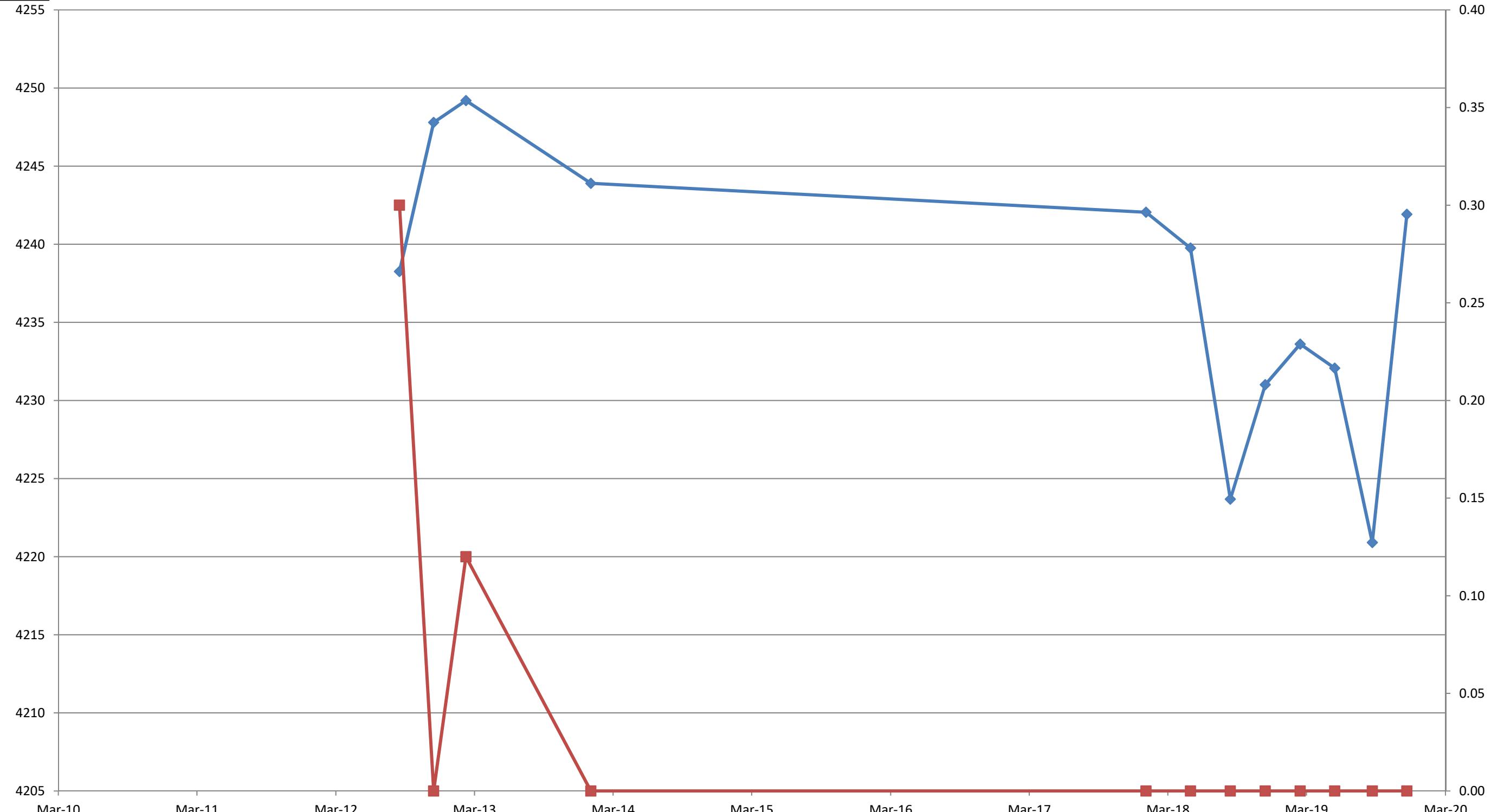
Well Installed
8/9/2012

MW-109D



Well Installed
7/25/2012

MW-110I



Well Installed
7/25/2012

MW-110D

